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BIBLIOGRAPHY RELATING TO FARM STRUCTURES

BY

GUY ERVIN
Assistant Editor
Bureau of Agricultural Engineering

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By GUY ERVIN, *Assistant Editor, Bureau of Agricultural Engineering*

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INTRODUCTION

This bibliography is believed to be reasonably complete as regards publications issued by the Federal Government and State agencies and includes a considerable number of references from other sources. The material has been classified according to subjects, the subject-matter index of this department being used as a guide. Within each subject the references are arranged alphabetically by authors. Each reference has been given a number for convenience in cross referencing. Cross references, when given, are placed at the end of the sections.

The bibliography does not include references relating to farm equipment such as heating, ventilation, lighting, and refrigeration. No publications in foreign languages are included.

FARM MANAGEMENT AND AGRICULTURAL ECONOMICS

FARMSTEAD PLANNING

BETTS, M. C., and HUMPHRIES, W. R. (1)
PLANNING THE FARMSTEAD. U. S. Dept. Agr. Farmers' Bul. 1132, 24 p., illus. 1920.
Contains description of four farmstead plans, including floor plan of farm house.

CADY, L. (2)
ATTRACTIVE FARMSTEADS. Minn. Univ. Agr. Ext. Bul. 65, 8 p., illus. 1919.
Suggestions for arranging and caring for farmstead.

CURTIS, C. E. (3)
FARM BUILDINGS FOR LANDOWNERS, AGENTS, AND TENANTS. 152 p., illus. London. 1912.
Deals with arrangement, design, and construction.

DAVIS, E. G. (4)
THE HOME GROUNDS. N. Y. Cornell Agr. Expt. Sta. Bul. 361, p. 295–405, illus. 1915.
Part I shows a number of plans for arrangement of farm buildings.

DENTON, J. B. (5)
THE FARM HOMESTEADS OF ENGLAND. 188 p., illus. London. 1865.
A collection of plans and principles of construction and arrangement.

HALL, I. F. (6)
AN ECONOMIC STUDY OF FARM BUILDINGS IN NEW YORK. N. Y. Cornell Agr. Expt. Sta. Bul. 478, 87 p., illus. 1929.
Relates chiefly to convenient arrangement of farm buildings.

IOWA STATE COLLEGE. (7)
MODEL FARMSTEAD. 4 p., illus. 1924.
An illustrated leaflet giving practical suggestions for farmstead planning.

MYERS, W. I. (8)
AN ECONOMIC STUDY OF FARM LAYOUT. N. Y. Cornell Agr. Expt. Sta. Mem. 34, p. 389–563, illus. 1920.
A study of 53 New York farms.

ROBERTS, I. P. (9)
THE FARMSTEAD: THE MAKING OF THE RURAL HOME AND THE LAYOUT OF THE FARM. 350 p., illus. New York and London. 1900.

WHITE, H. B., and JACOBSON, M. G. (10)
FARM BUILDING PLANS. Minn. Univ. Agr. Ext. Spec. Bul. 111, 8 p., illus. 1928.
Gives farm layouts and lists of building plans.

WILSON, A. D. (11)
THE FARMSTEAD. Minn. Farmers' Inst. Ann. 27: 56–59, illus. 1914.
Shows several suggested arrangements for 8-acre farmsteads.

GENERAL ENGINEERING

CIVIL, STRUCTURAL, AND ARCHITECTURAL ENGINEERING

ABE, M. (12)
ANALYSIS AND TESTS OF RIGIDLY CONNECTED REINFORCED CONCRETE FRAMES. Ill. Univ. Engin. Expt. Sta. Bul. 107, 106 p., illus. 1918.

ABRAMS, D. A. (13)
TESTS OF BOND BETWEEN CONCRETE AND STEEL. Ill. Univ. Engin. Expt. Sta. Bul. 71, 238 p., illus. 1913.
Gives results of extensive laboratory tests.

ADAMS, H. (14)
THE MECHANICS OF BUILDING CONSTRUCTION. 251 p., illus. London and New York. 1923.
Engineering theory and practice of building construction.

BATES, I. E. L., and BATES, C. F. (15)
MECHANICS FOR BUILDERS. 201 p., New York. 1914.
Intended for students of building construction.

BAUER, E. E. (16)
PLAIN CONCRETE. 346 p., illus. New York and London. 1928.
A textbook and laboratory manual.

BEGGS, G. E. (17)
THE USE OF MODELS IN THE SOLUTION OF INDETERMINATE STRUCTURES Jour. Franklin Inst. 203: 375–386, illus. 1927.
Contains results of work at Princeton University.

BISHOP, C. T. (18)
STRUCTURAL DRAFTING AND THE DESIGN OF DETAILS. 352 p., illus. New York. 1920.
For engineering students, draftsmen, and apprentices in structural drafting.

Cain, W. (19)
EARTH PRESSURE, RETAINING WALLS, AND BINS. 287 p., illus. New York. 1916.
Comprises discussion of principles, tables, and graphs.

Case, J. (20)
STRENGTH OF MATERIALS. 558 p., illus. New York and London. 1925.
A treatise on the theory of stress calculations for engineers.

Christie, W. W. (21)
WIND PRESSURE IN CHIMNEY DESIGN. Power 57: 438–439. 1923.
Gives formulas for determining pressure.

Cross, H. (22)
DEPENDABILITY OF THE THEORY OF CONCRETE ARCHES. Ill. Univ. Engin. Expt. Sta. Bul. 203, 34 p., illus. 1930.
A theoretical and mathematical discussion.

Dawley, E. R. (23)
WIND-PRESSURE TESTS ON LARGE MODEL BUILDING. Engin. News-Rec. 100: 508–510, illus. 1928.
Gives results of studies with wind tunnel at the Kansas station and makes suggestions for construction of buildings.

Dewell, H. D. (24)
LAGSCREWED JOINTS IN TIMBER. Engin. News 76: 162–164, illus. 1916.
Gives the results of tests.

Dryden, H. L., and Hill, G. C. (25)
WIND PRESSURE ON STRUCTURES. U. S. Dept. Com., Bur. Standards Sci. Paper 523, p. 697–732, illus. 1926.
General discussion and account of tunnel experiments.

Eddy, H. T., and Turner, C. A. P. (26)
CONCRETE-STEEL CONSTRUCTION. I. BUILDINGS. 493 p., illus. Minneapolis, Minn. 1919.
Elementary principles of design and execution.

Evinger, M. J. (27)
HOLDING POWER OF NAILS IN SINGLE SHEAR. Iowa Engin. Expt. Sta. Bul. v. 4, no. 2, 49 p., illus. 1908.
Contains results of tests with wire nails on five kinds of lumber.

Faber, O., and Bowie, P. G. (28)
REINFORCED CONCRETE DESIGN. 351 p., illus. London. 1912.
Gives fundamental principles of design.

Feld, J. (29)
LATERAL EARTH PRESSURE. Amer. Soc. Civ. Engin. Proc. 49: 603–660, illus. 1923.
Reports experiments at the University of Cincinnati.

Finebaum, H. J. (30)
STRENGTH OF BOLTS IN TIMBER. Engin. and Contract. 56: 77–78, illus.
Contains a diagram and mathematical formulas.

French, T. E. (31)
A MANUAL OF ENGINEERING DRAWING FOR STUDENTS AND DRAFTSMEN. 289 p., illus. New York and London. 1911.

Frye, A. I. (32)
CIVIL-ENGINEERS' POCKETBOOK. 1,653 p. New York and London. 1913.
A reference book for engineers, contractors, and students.

Hool, G. A. (33)
REINFORCED CONCRETE CONSTRUCTION. 3 v., illus. New York. 1912–16.
Volume 1 deals with fundamental principles of design; volume 2 with retaining walls and buildings.

——— and Johnson, N. C., assisted by Hollister, S. C. (34)
CONCRETE ENGINEERS' HANDBOOK; DATA FOR THE DESIGN AND CONSTRUCTION OF PLAIN AND REINFORCED CONCRETE STRUCTURES. 885 p., illus. New York. 1918.
(With chapters by H. Whipple, A. P. Mills, W. S. Edge, A. G. Hillberg, and L. H. Allen.)

——— and Johnson, N. C. (35)
HANDBOOK OF BUILDING CONSTRUCTION. 2 v., illus. New York and London. 1920.
For the use of the architect, engineer, and builder.

HOOL, G. A., and KINNE, W. S. (36)
STRESSES IN FRAMED STRUCTURES. 639 p., illus. New York and London. 1923.
Discusses the principles and design of such structures.

——— and KINNE, W. S. (editors-in-chief). (37)
FOUNDATIONS, ABUTMENTS, AND FOOTINGS, COMPILED BY A STAFF OF SPECIALISTS. 414 p., illus. New York. 1923.
Covers design and construction and treats of the elementary theory involved.

——— and KINNE, W. S. (editors-in-chief). (38)
STRUCTURAL MEMBERS AND CONNECTIONS, COMPILED BY A STAFF OF SPECIALISTS. 611 p., illus. New York. 1923.
Intended to provide a reference work on the subject.

——— and KINNE, W. S. (editors in chief). (39)
STEEL AND TIMBER STRUCTURES, COMPILED BY A STAFF OF SPECIALISTS. 695 p., illus. New York. 1924.
Deals with design and construction.

HUDSON, R. J. H. (40)
REINFORCED CONCRETE. 342 p., illus. London. 1922.
A practical handbook.

HUSBAND, J., and HARBY, W. (41)
STRUCTURAL ENGINEERING. 458 p., illus. London and New York. 1924.

JACOBY, H. S., and DAVIS, R. P. (42)
FOUNDATIONS OF BRIDGES AND BUILDINGS. Ed. 2, 684 p., illus. New York and London. 1925.
Discusses piles, pier foundations, caissons, underpinning, etc.

JOHNSON, J. B., BRYAN, C. W., and TURNEAURE, F. E. (43)
THE THEORY AND PRACTICE OF MODERN FRAMED STRUCTURES. PART I. STRESSES OF SIMPLE STRUCTURES. 370 p., illus. New York and London, 1926.

KENT, W. (44)
KENT'S MECHANICAL ENGINEER'S HANDBOOK. Ed. 10, 2,247 p., illus. New York and London. 1923.
Rewritten by R. T. Kent.

KETCHUM, M. S. (45)
STRUCTURAL ENGINEERS' HANDBOOK. Ed. 3, 1,080 p., illus. New York and London. 1924.
Relates chiefly to steel bridges and buildings.

KIDDER, F. E., and NOLAN, T. (46)
THE ARCHITECTS' AND BUILDERS' HANDBOOK. Ed. 17, 1,931 p., illus. New York. 1921.
For architects, structural engineers, and contractors.

KIRKHAM, J. E. (47)
STRUCTURAL ENGINEERING. 674 p., illus. Chicago. 1914.
General structural engineering, including highway bridges.

KOTTCAMP, J. P. (48)
STRENGTH OF MATERIALS. Ed. 2, 193 p., illus. New York. 1924.
A textbook for technical and industrial schools.

LEWIS, M. H., and CHANDLER, A. H. (49)
POPULAR HANDBOOK FOR CEMENT AND CONCRETE USERS. 439 p., illus. New York. 1911.
A comprehensive and popular treatise on the principle involved and the methods used.

LONGYEAR, B. O. (50)
THE NATURE OF DECAY IN WOOD. Colo. Agr. Expt. Sta. Bul. 307, 56 p., illus. 1926.
Discusses structure and characteristics of wood, and processes and rate of decay. Bibliography appended.

MCNARY, J. V. (51)
EARTH PRESSURE AGAINST ABUTMENT WALLS MEASURED WITH SOIL PRESSURE CELLS. U. S. Dept. Agr., Bur. Pub. Roads 6: 102–106, illus. 1925.
Contains results of tests made by the Bureau of Public Roads.

MANNING, G. P. (52)
REINFORCED CONCRETE DESIGN. 500 p., illus. New York and London. 1924.
Intended for the use of practicing engineers.

MARKS, L. S. (53)
MECHANICAL ENGINEERS' HANDBOOK. Ed. 2, 1,986 p., illus. New York and London. 1924.

MAURER, E. R., and WITHEY, M. O. (54)
STRENGTH OF MATERIALS. 382 p., illus. New York. 1929.

MERRIMAN, M. (55)
MECHANICS OF MATERIALS. Ed. 10, 507 p., illus. New York. 1906.

——— (56)
STRENGTH OF MATERIALS. Ed. 7, 204 p., illus. New York. 1928.
A textbook for secondary technical schools.

MILLS, A. P. (57)
MATERIALS OF CONSTRUCTION; THEIR MANUFACTURE AND PROPERTIES. Ed. 2, 476 p., illus. New York and London. 1922.
Describes manufacturing processes, properties, and uses of building materials.

MOORE, H. F. (58)
THE STRENGTH OF I-BEAMS IN FLEXURE. Ill. Univ. Engin. Expt. Sta. Bul. 68, 40 p., illus. 1913.
General discussion and results of tests.

MORLEY, A. (59)
STRENGTH OF MATERIALS. 564 p., illus. London and New York. 1920.
For the use of engineering students and practicing engineers.

MURDOCK, H. E. (60)
STRENGTH OF MATERIALS. 322 p., illus. New York and London. 1911.
Principles stated without formal use of calculus.

PASSWELL, G. (61)
RETAINING WALLS—THEIR DESIGN AND CONSTRUCTION. 285 p., illus. New York and London. 1920.
Part 1 deals with theory, and Part 2 with construction.

POORMAN, A. P. (62)
STRENGTH OF MATERIAL. 324 p., illus. New York and London. 1925.
Treats of stresses and deformation shear torsion, etc., of columns and beams.

PRESCOTT, J. (63)
APPLIED ELASTICITY. 673 p., illus. London and New York. 1924.
Deals with the subject from the engineers' point of view.

PULVER, H. E. (64)
MATERIALS OF CONSTRUCTION. 336 p., illus. New York and London, 1922.
One of the engineering education series prepared by the University of Wisconsin.

RICHART, F. E. (65)
AN INVESTIGATION OF WEB STRESSES IN REINFORCED CONCRETE BEAMS. PART I. Ill. Univ. Engin. Expt. Sta. Bul. 166, 106 p., illus. 1927.
Results of several series of tests are given and discussed.

——— and LARSON, L. J. (66)
AN INVESTIGATION OF WEB STRESSES IN REINFORCED CONCRETE BEAMS. PART II. Ill. Univ. Engin. Expt. Sta. Bul. 175, 76 p., illus. 1928.
A continuation of studies reported in Bulletin 166.

RICKER, N. C. (67)
A STUDY OF ROOF TRUSSES. Ill. Univ. Engin. Expt. Sta. Bul. 16, 28 p., illus. 1907.
Develops formula for use in roof designs.

ROBINSON, L. E. (68)
DOMESTIC ARCHITECTURE. 391 p., illus. New York. 1917.
Part I is for use in schools, and Part II is a practical guide for house design.

ROSS, J. (69)
WATERPROOFING ENGINEERING. 452 p., illus. New York. 1919.
Discusses methods and materials and gives results of investigations.

SALMON, E. H. (70)
COLUMNS. 295 p., illus. London. 1921.
A treatise on the strength and design of compression members. Includes an extensive bibliography.

SCOFIELD, H. H. and BURROWS, E. N. (71)
END BEARING STRENGTH OF WOOD ON SURFACES INCLINED TO FIBERS. Cornell Civ. Engin. 31: 98–102, illus. 1923.
Gives results of studies made at Cornell University.

SEELY, F. B. (72)
RESISTANCE OF MATERIALS. 455 p., illus. New York and London. 1925.
Deals with the mechanics of materials and with structural or force-resisting properties.

SPOFFORD, C. M. (73)
THE THEORY OF STRUCTURES. Ed. 2, rev. and enl., 483 p., illus. New York. 1915.
States the fundamental theories of design and illustrates their application.

SWAIN, G. F. (74)
STRUCTURAL ENGINEERING: FUNDAMENTAL PROPERTIES OF MATERIALS. 207 p., illus. New York and London. 1924.
Deals with fundamental properties of the principal materials used.

TALBOT, A. N. (75)
TESTS OF CONCRETE AND REINFORCED CONCRETE COLUMNS. Ill. Univ. Engin. Expt. Sta. Bul. 20, 59 p., illus. 1907.
General discussion and results of tests.

——— and ABRAMS, D. A. (76)
TESTS OF BRICK COLUMNS AND TERRA COTTA BLOCK COLUMNS. Ill. Univ. Engin. Expt. Sta. Bul. 27, 50 p., illus. 1908.
Gives results of 16 tests of each kind of column.

——— (77)
TESTS OF TIMBER BEAMS. Ill. Univ. Engin. Expt. Sta. Bul. 41, 77 p., illus. 1909.
Includes photographs of a large number of beams tested to failure.

——— and MOORE, H. F. (78)
AN INVESTIGATION OF BUILT-UP COLUMNS UNDER LOAD. Ill. Univ. Engin. Expt. Sta. Bul. 44, 64 p., illus. 1910.
Gives results of tests.

——— and SLATER, W. A. (79)
TESTS OF REINFORCED CONCRETE BUILDINGS UNDER LOAD. Ill. Univ. Engin. Expt. Sta. Bul. 64, 104 p., illus. 1913.

——— (80)
REINFORCED CONCRETE WALL FOOTINGS AND COLUMN FOOTINGS. Ill. Univ. Engin. Expt. Sta. Bul. 67, 114 p., illus. 1913.
Gives results of tests of 114 wall footings and 83 column footings.

——— and SLATER, W. A. (81)
TESTS OF REINFORCED CONCRETE FLAT SLAB STRUCTURES. Ill. Univ. Engin. Expt. Sta. Bul. 84, 128 p., illus. 1916.
Gives results of tests made in four buildings and one test structure.

TAYLOR, F. W., and THOMPSON, S. E. (82)
A TREATISE ON CONCRETE, PLAIN AND REINFORCED. Ed. 3, 905 p., illus. New York and London. 1916.
Deals with design and construction.

TURNEAURE, F. E., and MAURER, E. R. (83)
PRINCIPLES OF REINFORCED CONCRETE CONSTRUCTION. Ed. 3, 539 p., illus. New York. 1919.
Devoted to the theory of flexure, bond and shear, and the design of beams.

UNITED STATES DEPARTMENT OF COMMERCE, BUREAU OF STANDARDS. (84)
MINIMUM LIVE LOADS ALLOWABLE FOR USE IN DESIGN OF BUILDINGS. U. S. Dept. Com., Bur. Standards Building and Housing Ser. BH7, 38 p., illus. 1925.
Report of building code committee.

URQUHART, L. C., and O'ROURKE, C. R. (85)
DESIGN OF CONCRETE STRUCTURES. Ed. 2, 512 p., illus. New York and London. 1926.
Discusses theory of design and gives illustrative problems.

WATTS, J. S. (86)
STRENGTH OF SHAFTS AND BEAMS. Amer. Mach. 53: 909–910, illus. 1920.
Consists of a brief analysis with formulas and graphs.

WEBB, W. L., and GIBSON, W. H. (87)
CONCRETE AND REINFORCED CONCRETE. 251 p., illus. Chicago. 1916.
A practical treatise on design and construction.

WHITTEMORE, H. L., and HATHCOCK, B. D. (88)
SOME COMPRESSIVE TESTS OF HOLLOW-TILE WALLS. U. S. Dept. Com., Bur. Standards Technol. Paper 238: 513–527, illus. 1923.
Contains descriptions and results of tests.

——— and STANG, A. H. (89)
COMPRESSIVE STRENGTH OF SAND-LIME BRICK WALLS. U. S. Dept. Com., Bur. Standards Technol. Paper 276, 71 p., illus. 1925.
Gives results of tests.

WILLIAMS, C. C. (90)
THE DESIGN OF MASONRY STRUCTURES AND FOUNDATIONS. 563 p., illus. New York and London. 1922.
Covers the fundamental principles of design.

WYNN, A. E. (91)
DESIGN AND CONSTRUCTION OF FORMWORK FOR CONCRETE STRUCTURES. 307 p., illus. London. 1926.
Discusses theoretical design of forms, design tables, design problems, and details of construction.

AGRICULTURAL ENGINEERING

ANDREWS, G. H. (92)
RUDIMENTARY TREATISE ON AGRICULTURAL ENGINEERING. 3 v. London. 1852.
Volume 2 treats of farm buildings.

SMITHSONIAN INSTITUTION. (93)
SMITHSONIAN PHYSICAL TABLES. Prepared by F. E. Fowle. Smithsonian Misc. Collect. 71, 496 p. 1920.
Contains a large amount of data of use to engineers.

MATERIALS

ANONYMOUS. (94)
THE ECONOMIC BRICK MORTAR. Cement and Engin. News 28: 192–193. 1916.
Gives results of experiments at Columbia University.

——— (95)
UNIT STRESSES FOR TIMBER. MANUFACTURERS' TABLE. Engin. News 76: 273 1916.
Working unit stresses for structural timbers given in tabular form

——— (96)
MOISTURE RESISTANT COATINGS FOR WOOD. Engin. News-Rec. 90: 613. 1923.
Brief description of experiments by the Forest Service.

ABRAMS, D. A. (97)
STONE SCREENINGS AS FINE AGGREGATE FOR CONCRETE. Concrete 22: 128–132, illus. 1923.
Gives results of studies made by the Lewis Institute.

BETTS, H. S. (98)
THE SEASONING OF WOOD. U. S. Dept. Agr. Bul. 552, 28 p., illus. 1917.
Describes methods used and results. Contains shrinkage tables.

——— (99)
TIMBER: ITS STRENGTH, SEASONING, AND GRADING. 244 p., illus. New York. 1919.
A handbook for engineers, manufacturers, and users.

——— (100)
THE STRENGTH OF NORTH AMERICAN WOODS. U. S. Dept. Agr. Misc. Pub. 46, 18 p. 1929.
Gives results of tests by the Forest Service on 129 different woods.

BIENFAIT, J. L. (101)
RELATION OF THE MANNER OF FAILURE TO THE STRUCTURE OF WOOD UNDER COMPRESSION PARALLEL TO THE GRAIN. Jour. Agr. Research 33: 183–194, illus. 1926.
Relates to studies by the United States Forest Service.

BLAIR, R. J. (102)
THE CAUSE AND PREVENTION OF DECAY IN STRUCTURAL TIMBER. Jour. Engin. Inst. Canada 4: 565–568, illus. 1921.
A contribution from the Forest Products Laboratories, Canada.

BLAKE, E. G. (103)
THE SEASONING AND PRESERVATION OF TIMBER. 144 p., illus. London. 1924.
Describes methods employed and explains origin and spread of dry rot.

BROWN, W. S. (104)
THE PRESERVATION OF DECAYING WOOD ROOFS. Mech. Engin. 44: 709–712, illus. 1922.
An analysis of the general theory of wood decay and preservative methods.

BROWNE, F. L. (105)
A PRINCIPLE FOR TESTING THE DURABILITY OF PAINTS AS PROTECTIVE COATINGS FOR WOOD. Indus. and Engin. Chem. 19: 982–985, illus. 1927.
An account of studies by the Forest Service.

BUSEY, F. L. (106)
TRANSMISSION OF HEAT THROUGH BUILDING MATERIAL. Power 39: 572–574, illus. 1914.
Analysis of mathematical methods and tabular data.

CARMAN, A. P., and NELSON, R. A. (107)
THE THERMAL CONDUCTIVITY AND DIFFUSIVITY OF CONCRETE. Ill. Univ. Engin. Expt. Sta. Bul. 122, 39 p., illus. 1921.
Gives comparative results with different mixtures.

CARSON, F. T., and WORTHINGTON, F. V. (108)
A STUDY OF SHEATHING PAPERS. U. S. Dept. Com., Bur. Standards Jour. Research. 3: 75–89, illus. 1929. (Research Paper 85.)
Describes experiments made to determine properties of a large number of papers.

CHAPMAN, C. M. (109)
A NEW FORM OF SPECIFICATIONS FOR CONCRETE AGGREGATES. Amer. Soc. Testing Materials Proc. 16 (pt. 2): 180–193. 1916.

COFFIGNIER, C. (110)
COLOURS AND VARNISHES. 265 p., illus. London. 1925.

COYE, J. S. (111)
AN INVESTIGATION OF THE PROTECTIVE VALUES OF STRUCTURAL STEEL PAINTS. Iowa Engin. Expt. Sta. Bul. 54, 68 p., illus. 1919.
Gives results of laboratory and field studies.

CRAIN, L D. (112)
ENGINEERING DIVISION. (Report of Civil Engineering Section, by E. B. House; and Report of Mechanical Engineering Section, by C. A. Logan.) Colo. Agr. Expt. Sta. Ann. Rpt. 41: 44–47. 1928.
Gives results of tests of commercial insulating material.

CUMINGS, G. A. (113)
HEAT TRANSMISSION OF COMMERCIAL WALL BOARD. Colo. Agr. Expt. Sta. Bul. 282, 8 p., illus. 1923.
Gives the results of an investigation.

CURTISS, C. F. (114)
PRESERVATIVE TREATMENT OF FARM TIMBERS. Iowa Agr. Expt. Sta. Ann. Rpt. 1925–26: 44. 1926.
Gives the results of an experiment.

CUSHMAN, A. S. (115)
THE CORROSION AND PRESERVATION OF IRON AND STEEL. 373 p., illus. New York. 1910.

DAVIS, H. A. (116)
CHARACTERISTICS OF CONCRETE-BRICK MASONRY. Concrete 21: 10–13, illus. 1922.
Gives results of studies made at Columbia University.

DAVIS, J. L. (117)
IMPERMEABILITY TESTS ON CONCRETE. Engin. News 68: 866–869, illus. 1912.
Gives results of comparative tests.

ECKEL, E. C. (118)
CEMENTS, LIMES AND PLASTERS. Ed. 3, 733 p., illus. New York and London. 1928.
Contains information on properties and manufacture.

EDGERTON, C. W. (119)
"DRY ROT" IN BUILDINGS AND BUILDING MATERIALS. La. Agr. Expt. Sta. Bul. 190, 12 p., illus. 1924.
Discusses causes and prevention.

FULLER, M. O. (120)
TENSILE STRENGTH OF PORTLAND CEMENT MORTARS CONTAINING LIME. Concrete 9: 89–91, illus. 1916.
Gives results of nine series of tests.

GRIFFITHS, E. (121)
THERMAL CONDUCTIVITIES OF WALLS, CONCRETES, AND PLASTERS. [Gt. Brit.] Dept. Sci. and Indus. Research, Bldg. Research Tech. Paper 6, 23 p., illus. 1928.
Effects of hollow walls and damp walls on conductivity are discussed.

GROESBECK, E. C., and TUCKER, W. A. (122)
ACCELERATED LABORATORY CORROSION TEST METHODS FOR ZINC-COATED STEEL. U. S. Dept. Com., Bur. Standards Jour. Research 1: 255–295, illus. 1928.
Describes two types of laboratory methods for evaluating the indicated life of zinc-coated sheet steel.

HARRIS, W. R., and CAMPBELL, H. C. (123)
CONCRETE PRODUCTS: THEIR MANUFACTURE AND USE. 256 p., illus. Chicago. 1921.
Contains practical information.

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ADOBE CONSTRUCTION. Calif. Agr. Expt. Sta. Bul. 472, 56 p., illus. 1929.
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ADOBE BRICK FOR FARM BUILDINGS. Colo. Agr. Expt. Sta. Bul. 308 (rev.), 28 p., illus. 1930.
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FIRE RESISTANT CONSTRUCTION. [Gt. Brit.] Dept. Sci. and Indus. Research Bldg.. Research Spec. Rpt. 8, 57 p., illus. 1927.
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FIRE SAFEGUARDS FOR THE FARM. U. S. Dept. Agr. Farmers' Bul. 1643, 22 p., illus. 1930.
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Reports results of a series of experiments.

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CHIMNEY AND FIREPLACE CONSTRUCTION. Agr. Engin. 1: 28–30, illus. 1920.

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Shows saving of fuel with insulation of different thicknesses.

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QUANTITIES OF MATERIALS FOR CONCRETE. Lewis Inst. Struct. Materials, Research Lab. Bul. 9, 21 p. 1921.
Résumé of results of a large number of laboratory investigations.

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CONCRETE ON THE FARM. 94 p., illus. New York. 1922.

BADDER, H. C. (306)
IMPERVIOUS CONCRETE. 224 p., illus. London. 1923.
Discusses selection of aggregates, mixing, and depositing.

BETTS, M. C., and MILLER, T. A. H. (307)
SMALL CONCRETE CONSTRUCTION ON THE FARM. U. S. Dept. Agr. Farmers' Bul. 1480, 38 p., illus. 1926.
Describes methods of constructing a number of small farm structures.

CAMPBELL, H. C. (308)
CONCRETE ON THE FARM AND IN THE SHOP. 149 p., illus. New York. 1916.
Fundamental principles of construction.

COCHRAN, J. (309)
A TREATISE ON THE INSPECTION OF CONCRETE CONSTRUCTION. 610 p., illus. Chicago. 1913.
Sets forth in detail the principal points upon which an inspector should be informed.

EKBLAW, K. J. T. (310)
FARM BUILDING CONSTRUCTION WITH CONCRETE UNITS. Reclam. and Farm Engin. 8: 284–287, illus. 1925.
Discusses methods of design and construction.

FOGLE, F. E. (311)
TESTED METHODS FOR WATERPROOFING CONCRETE. Mich. Agr. Expt. Sta. Quart. Bul. 10: 63–67, illus. 1927.
Three methods are described.

FOWLER, E. S. (312)
THE DESIGN OF PERMANENT FARM BUILDINGS. Amer. Soc. Agr. Engin. Trans. 7: 106–117, illus. 1913.
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HATT, W. K., and VOSS, W. C. (313)
CONCRETE WORK. 465 p., illus. New York. 1921.
A technical treatise intended as a guide to concrete workers.

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CONCRETE COTTAGES, SMALL GARAGES AND FARM BUILDINGS. 170 p., illus. London. 1918.
Treats of materials and methods of construction. Contains many designs.

MILLER, T. A. H. (315)
PLAIN CONCRETE FOR FARM USE. U. S. Dept. Agr. Farmers' Bul. 1279, 27 p., illus. 1922.
Gives directions for making forms and for mixing and placing concrete.

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CONCRETE CONSTRUCTION FOR RURAL COMMUNITIES. 234 p., illus. New York and London. 1916.
A semitechnical treatise on the essential features of concrete construction.

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RURAL LABORERS' COTTAGES. Surveyor 46: 272–277, illus. 1914.
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THE STRUCTURE OF THE HOUSE. Concrete 22: 41–56, illus. 1923.
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DODD, H. (319)
THE HEALTHFUL FARMHOUSE. 79 p., illus. Boston. 1911,
Deals with the general arrangement of the farmhouse sanitation, convenience, and comfort.

ETHERTON, W. A. (320)
THE FARMHOUSE IMPROVED. Kans. Engin. Expt. Sta. Bul. 7, 88 p., illus. 1917.
Contains descriptions and plans for several types of houses and practical information as to construction details.

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MODEL FARM HOUSES. Minn. Univ. Agr. Ext. Bul. 52, 3 p., 25 pl. illus. 1914.
Contains plans obtained through a competition.

GALLAGHER, H. J. (322)
REMODELING AN OLD FARM HOUSE. A DISCUSSION OF FEATURES THAT INSURE HOME CONTENTMENT AND MAKE FARM LIFE MORE ENJOYABLE. Mich. Agr. Expt. Sta. Quart. Bul. 6: 174–176, illus. 1924.
Suggestions and plan for modernizing a farm house.

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IMPROVING THE APPEARANCE OF THE HOME. Mich. Agr. Col. Quart. Bul. 7: 132–135, illus. 1925.
Points out advantages of porches and sun parlors.

GRAY, G. (324)
CONVENIENT KITCHENS. U. S. Dept. Agr. Farmers' Bul. 1513, 30 p., illus. 1926.
Contains several floor plans and advantages of each. Bibliography appended.

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HOUSE AND HOME; A MANUAL AND TEXT-BOOK OF PRACTICAL HOUSE PLANNING. Ed. 2, rev., 356 p., illus. Philadelphia, Chicago, [etc.] 1928.

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HOUSES FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 10, 70 p., illus. 1915.
Describes six types of farmhouses.

HIMMELWRIGHT, A. L. A. (327)
A MODEL FIRE-PROOF FARM HOUSE OR COUNTRY HOME. 91 p., illus. New York. 1913.
Contains specifications, bills of materials, and detailed plans of 16-room and 10-room houses.

HOLLOWAY, E. (328)
HOUSING IN RURAL DISTRICTS. Surveyor 46: 330–331, illus. 1914.
A type of rural cottage for England is described.

JOHNSON, M. (329)
FARM HOME PLANNING. Ark. Agr. Expt. Sta. Bul. 231, 50 p. 1928.
Contains results of a survey.

OSBORNE, C. F. (330)
THE FAMILY HOUSE. 236 p., illus. Philadelphia. 1910.
Discusses location, planning, and construction.

SMITH, L. J., WEAVER, R., and LAWRENCE, M. M. (331)
CONVENIENT FARM HOMES. Wash. State. Col. Ext. Bul. 91, 17 p., illus. 1922.
Contains 12 floor plans.

WHITING, R. S. (332)
HOUSING FARM HELP. Natl. Lumber Mfrs. Assoc. Gen Ser. No. 76, 24 p., illus. 1918.
Describes and gives plans for farm house.

WICHERS, H. E. (333)
DESIGN FOR KANSAS FARM HOMES. Kans. Engin. Expt. Sta. Bul. 23, 105 p., illus. 1929.
Shows 32 designs and plans for farm homes.

WOOLEY, J. C. (334)
FARM BUILDING PLANS. Missouri Agr. Col. Ext. Circ. 247, 27 p., illus. 1930.
Plans of farm dwellings and other farm buildings.

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BUILDING AND LOAN CONSTRUCTION STANDARDS. 186 p., illus. Cincinnati 1930.
Contains detailed specifications for residential building.

See also (68), (204), and (275).

BUILDINGS FOR FARM ANIMALS

GENERAL

CARTER, D. G. (336)
THE UNIT SPACE METHOD OF BARN PLANNING. Agr. Engin. 9: 271–273, illus. 1928.
Describes plans prepared at the Arkansas Experiment Station.

CLYDE, A. W. (337)
TESTS OF SELF-SUPPORTING BARN ROOFS. Agr. Engin. 4: 107–109, illus. 1923.
Gives the results of tests by Iowa State University.

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TEST OF MASONRY ARCH BARN ROOF. Agr. Engin. 5: 30–31, illus. 1924.
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STABLE SANITATION AND CONSTRUCTION. 220 p., illus. London and New York. 1897.
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BUILDINGS AND EQUIPMENT FOR THE LIVESTOCK FARM. W. Va. Agr. Expt. Sta. Circ. 53, 55 p., illus. 1928.
Describes equipment for cattle, sheep, and hogs.

CURTISS, C. F. (341)
AGRICULTURAL ENGINEERING. Iowa Agr. Expt. Sta. Rpt. 1927–28: 10–13. 1928.
Contains data regarding construction of barns and ice houses, and air requirements of poultry.

DOLVE, R. M. (342)
BARN PLANS. N. Dak. Agr. Expt. Sta. Bul. 97, 59 p., illus. 1912.
General discussion and plans.

FOGLE, F. E. (343)
THE GOTHIC BARN ROOF WITH SPRUNG RAFTERS. Agr. Engin. 8: 13, 14, illus. 1927.
General description with drawings showing details of construction.

FRASER, W. J. (344)
THE ROUND BARN. Ill. Agr. Expt. Sta. Circ. 230, 52 p., illus. 1918. (Revision of Bulletin 143.)
Enumerates the advantages and disadvantages of this type of barn.

GREIG, A. R., and SHAW, A. M. (345)
COMBINATION BARNS FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 1, 54 p., illus. 1915.
Gives structural details of four barns.

HALSTED, B. D. (346)
BARN PLANS AND OUTBUILDINGS. 388 p., illus. New York. 1903.
Describes various types of barns and miscellaneous farm structures.

HARNEY, G. E. (347)
STABLES, OUTBUILDINGS, AND FENCES. 120 ORIGINAL DESIGNS AND PLANS WITH DESCRIPTIVE MATTER. New York [1870.]
Contains 62 plans of farm buildings and fences.

KENDALL, E. W., and STEVENSON, L. (348)
FARM BARNS. Ontario Dept. Agr. Bul. 326, 23 p., illus. 1927.
Gives practical information on barn planning together with working drawings.

MURDOCK, H. E. (349)
FARM BUILDINGS. Mont. Agr. Expt. Sta. Circ. 131, 32 p., illus. 1926.
Discusses arrangements of buildings, and details of construction. Describes construction of straw sheds.

NIEMANN, H. H. (350)
REPORT OF COMMITTEE ON FARM STRUCTURES. Amer. Soc. Agr. Engin. Trans. 12: 268–282, illus. 1918.
Describes a number of designs of barn arrangement.

PATTY, R. L., and LARSEN, C. (351)
A SERVICEABLE FARM BARN. S. Dak. Agr. Col. Ext. Circ. 82, 20 p., illus. 1920.
Describes construction of barn and its importance.

RADFORD, W. A. (352)
PRACTICAL BARN PLANS AND ALL KINDS OF FARM BUILDINGS. 169 p. Chicago and New York. 1911.
Gives plans showing methods of design and structural details.

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BARN ROOF DESIGN. Amer. Soc. Agr. Engin. Trans. 12: 57–75, illus. 1918.
A study made at Cornell University.

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MAKING THE OLD BARN NEW. Bldg. Age 45: 66–68, illus. 1923.
A contribution from the Massachusetts Agricultural Experiment Station.

TWITCHELL, H. P. (355)
BRACED RAFTER BARN FRAMING. Ohio Agr. Col. Ext. Bul. 17, 20 p., illus. 1921–22.
Includes diagrams and detailed drawings.

WARD, W. G. (356)
FARM BUILDINGS FOR KANSAS. Kans. Agr. Col. Ext. Bul. 50, 35 p., illus. 1925.
Contains plans of dwellings, barns, hog houses, poultry houses, granaries, and miscellaneous structures.

WHITNAH, C. S. (357)
RELATION OF BARN CONSTRUCTION TO SANITATION. Agr. Engin. 3: 137–139, illus. 1922.
Compares artificially heated barns with animal-heated barns.

WOOD, I. D. (358)
FARM BUILDINGS FOR NEBRASKA. Nebr. Agr. Col. Ext. Circ. 722, 78 p., illus. 1925.
Description and price list of plans approved by University of Nebraska.

See also (204), (214), (254), (312), (425), and (525).

HORSE BARNS

GREIG, A. R., and SHAW, A. M. (359)
HORSE BARNS FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 4, 50 p., illus. 1915.

HUBBARD, W. W. (360)
HORSE BARN. Canada Expt. Farms Rpt. 1914: 408–409, illus. 1914.

YOUNGBLOOD, B. (361)
BARNS FOR WORK ANIMALS. Tex. Agr. Expt. Sta. Bul. 210, 28 p., illus. 1917.
Plans are given for barns adaptable to Texas conditions.

DAIRY BARNS

BARTLETT, J. W., and GROSS, E. R. (362)
DAIRY BARN DEVICES. N. J. Agr. Col. Ext. Bul. 47, 16 p., illus. 1925.
Gives plans for bull-pen breeding rack, stalls, stanchions, troughs, and loading chutes.

BEGIN, J. (363)
A GOOD COMMERCIAL DAIRY BARN. Canada Expt. Farms Rpt., 1914: 376–379, illus. 1914.
Plans and specifications given.

BUCKLEY, S. S. (364)
OPEN STABLES VERSUS CLOSED STABLES FOR DAIRY ANIMALS. Md. Agr. Expt. Sta. Bul. 177: [219]–250, illus. 1913.
Gives results of comparative tests.

Clarkson, W. B., and Whitnah, C. S. (365)
climatic dairy barns. Agr. Engin. 1: 23–26, illus. 1920.
Discusses the heat generated by animals and insulation of barns to reduce heat losses.

Cook, H. E. (366)
construction of sanitary dairy stables. Maine Agr. Commr. Rpt. 1905: 119–137, illus. 1905.

Cornell, F. D., Jr. (367)
buildings and equipment for the dairy farm. W. Va. Agr. Expt. Sta. Circ. 49, 47 p., illus. 1928.
Practical information and plans for barns and equipment.

Erf, O. (368)
sanitary dairy barns. Ohio State Univ. Bul. 14: 132–166, illus. 1910.
Discusses materials and equipment and shows plans.

Fish, N. S. (369)
building the dairy barn. Wis. Agr. Expt. Sta. Bul. 369, 31 p., illus. 1924.
Construction details are shown and described.

Fitch, J. B., and Hillman, V. R. (370)
dairy buildings for kansas. Kans. Agr. Expt. Sta. Bul. 236, 45 p., illus. 1925.
Contains plans and details of construction.

Foster, W. A., and Weaver, E. (371)
dairy barns and equipment. Iowa Agr. Expt. Sta. Circ. 93, 31 p., illus. 1925.
Essentials of good construction are pointed out, and plans are shown.

Frandsen, J. H., and Nevens, W. B. (372)
dairy barn and milk house arrangement. Nebr. Agr. Expt. Sta. Circ. 6, 28 p., illus. 1919.
Discusses construction, lighting, ventilation, and arrangement of dairy barns, and plan of milk house.

Greig, A. R., and Shaw, A. M. (373)
dairy barns, ice and milk houses for prairie farms. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 2, 66 p., illus. 1915.
Describes four types of dairy barns and two ice and milk houses.

Hall, I. F. (374)
dairy barn rearrangement. N. Y. Agr. Col. (Cornell) Ext. Bul. 111, 9 p., illus. 1925.
Describes methods of rearranging barns for market-milk production.

Higgins, L. A., and Scoates, D. (375)
dairy barn construction. Miss. Agr. Col. Ext. Bul. 2, 8 p., illus. n. d.
Relates chiefly to equipment.

Hubbard, W. W. (376)
cow barn. Canada Expt. Farms Rpt. 1914: 366–368, illus. 1914.

Hulce, R. S., and Nevans, W. B. (377)
the arrangement of rectangular dairy barns. Ill. Agr. Expt. Sta. Circ. 199, 30 p., illus. 1917.
Discusses types, lighting, ventilation, and floor plans.

Kelley, J. B., Hooper, J. J., and Welch, E. G. (378)
building plans for the dairy farm. Ky. Agr. Col. Ext. Circ. 128, 48 p., illus. 1921.
Gives plans for barns and equipment.

Kelley, M. A. R. (379)
some factors in scientific dairy barn design. Agr. Engin. 4: 139–142, illus. 1923.
Discusses cow stalls, water bowls, and gutters.

——— (380)
effects of environment on the dairy cow and its relation to housing. Agr. Engin. 9: 186–188, illus. 1928.
Reviews experiments made by different agencies. Bibliography.

Kelly, E., and Parks, K. E. (381)
farm dairy houses. U. S. Dept. Agr. Farmers' Bul. 1214, 14 p., illus. 1921.
Brief descriptions and plans for nine farm dairies.

Lamaster, J. P., and Keegan, W. J. (382)
dairy barn and mlk house construction. Clemson Agri. Col., S. C., Ext. Bul. 62, 48 p., illus. 1924.
General discussion and details of framing of barns and directions for building small milk houses.

MURDOCK, H. E., MERRILL, R. M., and TRETSVEN, J. O. (383)
DAIRY BARNS FOR MONTANA FARMS. Mont. Agr. Expt. Sta. Circ. 130, 22 p., illus. 1925.
Shows plans for several types of barns.

NICHOLLS, W. D. (384)
THE CONSTRUCTION AND EQUIPMENT OF DAIRY BARNS. Ky. Agr. Expt. Sta. Bul. 179: 37–112, illus. 1914.
Intended especially for dairymen of limited means.

PARKS, K. E. (385)
DAIRY-BARN CONSTRUCTION. U. S. Dept. Agr. Farmers' Bul. 1342, 22 p., illus. 1923.
Discusses types and gives details of design.

SJOGREN, O. W., and WOOD, I. D. (386)
DAIRY BARNS FOR NEBRASKA. Nebr. Agr. Col. Ext. Circ. 721, 32 p., illus. 1924.
Includes a variety of plans.

SMITH, L. J. (387)
PLANS FOR SMALL BARNS. Wash. Agr. Expt. Sta. Pop. Bul. 123, 26 p., illus. 1923.
Plans and descriptions of general purpose and beef barns and details of framing.

SMITH, R. S. (388)
SANITARY REMODELING OF DAIRY BARNS. [Maine] Dept. Agr. Bul. 11: 15–31, illus. 1912.
Suggests changes in old barns that may be made at reasonable expense.

STAHL, C. L. (389)
PLANS FOR DAIRY BARNS AND MILK ROOMS. Va. Dept. Agr. and Immigr., Dairy and Food Div. Bul. 50, 14 p., illus. 1915.
Contains plans and bills of material.

STRAHAN, J. L. (390)
SUGGESTIONS FOR THE IMPROVEMENT OF VERMONT DAIRY STABLES. Vt. Dept. Agr. Bul. 28, 53 p., illus. 1918.
Contains suggestions for lighting, ventilation, etc.

TEXAS AGRICULTURAL AND MECHANICAL COLLEGE, EXTENSION SERVICE. (391)
DAIRY BARN PLANS. Tex. Agr. Col. Ext. [Circ.] 59, 16 p., illus. 1927.
Gives several barn plans and bills of material.

WHITE, F. M., and GRIFFITH, C. I. (392)
BARNS FOR WISCONSIN DAIRY FARMS. Wis. Agr. Expt. Sta. Bul. 266, 32 p., illus. 1916.
Discusses general requirements and factors to be considered.

WHITE, H. B. (393)
DAIRY BARNS FROM A MANUFACTURING POINT OF VIEW. Agr. Engin. 10: 117–120, illus. 1929.
Gives results of a study of 100 dairy barns in Minnesota.

——— and JACOBSON, M. G. (394)
BARNS. Minn. Univ. Agr. Ext. Spec. Bul. 98, 24 p., illus. 1925.
Several plans of barns are shown and described.

WOODWARD, T. E., TURNER, W. F., HALE, W. R., and MCNULTY, J. B. (395)
THE OPEN SHED COMPARED WITH THE CLOSED BARN FOR DAIRY COWS. U. S. Dept. Agr. Bul. 736, 15 p. 1918.
Gives results of experiments at Beltsville, Md.

ZEASMAN, O. R., HUMPHREY, G. C., and SCHINDLER, L. M. (396)
DAIRY BARNS. Wis. Agr. Expt. Sta. Bul. 325, 34 p., illus. 1921.
Contains popular and semitechnical information.

See also (222), (234), and (237).

BEEF-CATTLE BARNS

BLACK, W. H., and PARR, V. V. (397)
FEED-LOT AND RANCH EQUIPMENT FOR BEEF CATTLE. U. S. Dept. Agr. Farmers' Bul. 1584, 22 p., illus. 1929.
Contains descriptions and plans for structures.

CURTIS, R. S. (398)
BEEF CATTLE AND SHEEP BARNS. N. C. Agr. Expt. Sta. Circ. 2 (rev.), 21 p., illus. 1914.
Gives several ground plans adaptable to North Carolina conditions.

Foster, W. A., and Stephenson, R. S. (399)
BEEF CATTLE EQUIPMENT. Iowa. Agr. Expt. Sta. Circ. 75, 31 p., illus. 1922.
Describes feed racks, self-feeders, water tanks, manure pits, etc.

——— and Stephenson, R. S. (400)
CATTLE FEEDING BARNS AND SHELTERS. Iowa Agr. Expt. Sta. Circ. 74, 23 p., illus. 1922.
Contains descriptions and plans of several types.

Greig, A. R., and Shaw, A. M. (401)
BEEF CATTLE BARNS FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 3, 53 p., illus. 1915.
Describes various types.

Sheets, E. W., and Kelley, M. A. R. (402)
BEEF-CATTLE BARNS. U. S. Dept. Agr. Farmers' Bul. 1350, 16 p., illus. 1923.
Treats of construction and design.

SHEEP AND GOAT BARNS

Greig, A. R., and Shaw, A. M. (403)
SHEEP BARNS FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 5, 34 p., illus. 1915.

McWhorter, V. O. (404)
EQUIPMENT FOR FARM SHEEP RAISING. U. S. Dept. Agr. Farmers' Bul. 810, 27 p., illus. 1917.
Contains drawings and description of various structures required in sheep raising.

Miller, R. F., and Fermery, G. E. (405)
LAMBING SHEDS. Calif. Agr. Expt. Sta. Circ. 188, 16 p., illus. 1917.
Describes barn, shed, pens, and corrals.

See also (398).

HOG HOUSES

Anderson, B. M., and Hillman, V. R. (406)
EQUIPMENT FOR SWINE PRODUCTION. Kans. Agr. Expt. Sta. Bul. 243, 46 p., illus. 1927.
Describes a variety of buildings and equipment that have been found practical on Kansas farms.

Davidson, J. B., Evvard, J. M., and Kaiser, W. G. (407)
COMMUNITY HOG HOUSES. Iowa Agr. Expt. Sta. Bul. 166, p. [406]–458, illus. 1916.
Enumerates the essential features and advantages and disadvantages.

Evvard, J. M., and Davidson. J. B. (408)
MOVABLE HOG HOUSES. Iowa Agr. Expt. Sta. Bul. 152, p. [203]–246, illus. 1914.
Describes hog houses which have been proven successful.

——— Davidson, J. B., and Foster, W. A. (409)
SELF FEEDERS FOR SWINE. Iowa Agr. Expt. Sta. Bul. 208, p. [99]–143, illus. 1922.
General discussion and descriptions of Iowa and Ames self-feeders.

Fargo, J. M., and Swenehart, J. (410)
HOG HOUSES FOR WISCONSIN. Wis. Agr. Col. Ext. Circ. 225, 31 p., illus. 1928.
Compares different types of houses and shows plans of eight types.

Foster, W. A., and Carroll, W. E. (411)
MOVABLE HOG HOUSES. Ill. Agr. Expt. Sta. Circ. 320, 20 p., illus. 1927.

——— and Evvard, J. M. (412)
SUNSHINE AND SANITATION FOR HOG HOUSES. Iowa Agr. Expt. Sta. Bul. 194, p. [257]–296, illus. 1921.
Explains the health essentials for hog houses and points out how they can be provided.

Fraser, W. J. (413)
ECONOMY OF THE ROUND DAIRY BARN. Ill. Agr. Expt. Sta. Bul. 143, 44 p., illus. 1910.
Discusses advantages and gives details of construction. Describes manner of constructing silo in center of barn.

GREIG, A. R., and SHAW, A. M. (414)
PIGGERIES AND SMOKE HOUSES FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 6, 38 p., illus. 1915.

HARRIS, F. C. (415)
SUNSHINE EFFICIENCY OF HOG HOUSES. Amer. Soc. Agr. Engin. Trans. 15, 39–59, illus. 1921.
Gives results of studies made in Massachusetts.

KAISER, W. G. (416)
HOW TO LET IN THE SUNSHINE. Farm Mechanics 3, pp. 22–25, illus. 1920.
Contains data on the design of hog houses.

MCVEAN, J. D., and HUTTON, R. E. (417)
MOVABLE HOG HOUSES. U. S. Dept. Agr., Off. Sec. Circ. 102, 8 p., illus. 1918.
Advantages are discussed, and instructions and bills of material are given.

NORMAN, C. A., and SCHWAB, J. W. (418)
PRACTICAL HOG HOUSES FOR INDIANA. Purdue Agr. Ext. Bul. 76, 8 p., illus. 1920.

PATTY, R. L. (419)
HOG HOUSES FOR SOUTH DAKOTA. S. Dak. Agr. Col. Ext. Circ. 7, 32 p., illus. 1918.
Describes a modification of the Iowa sunlit plan.

POTTS, H. W., and BROOKS, A. (420)
MODERN PIGGERY BUILDINGS. Agr. Gaz. N. S. Wales 27, pp. 555–560, illus. 1916.
Plans and details are given.

RUSSELL, E. Z. (421)
PRACTICAL HOG HOUSES. U. S. Dept. Agr. Farmers' Bul. 1487, 14 p., illus. 1926.
Describes several types.

SCHWAB, J. W., and NORMAN, C. A. (422)
HOW TO MAKE AND USE A SELF-FEEDER FOR HOGS. Purdue Agr. Ext. Bul. 90, 8 p., illus. 1920.

SJOGREN, O. W., and WOOD, I. D. (423)
HOG HOUSES FOR NEBRASKA. Nebr. Agr. Expt. Sta. Circ. 14, 20 p., illus. 1922.
Contains practical information and plans. Sunlight chart included.

STABLER, A. L. (424)
PIG FEEDING EXPERIMENTS AND TWO KINDS OF HOG HOUSES. Md. Agr. Expt. Sta. Bul. 150: 93–132, illus. 1911.

TOMHAVE, W. H., and HARVNER, H. H. (425)
SWINE FEEDING AND MANAGEMENT. Penn. State Col. Ext. Circ. 77, 24 p., illus. 1919.
Contains plans for hog houses, feeding floors, and self-feeders.

TWITCHELL, H. P. (426)
HOG HOUSES AND EQUIPMENT. Ohio Agr. Col. Ext. Bul. 57, 24 p., illus. n. d.
Contains specifications and working drawings.

WAGGENER, O. O., and WOOD, I. D. (427)
NEBRASKA PORTABLE HOG HOUSES. Nebr. Agr. Col. Ext. Circ. 230 (rev.), 8 p., illus. 1929.

WEAVER, L. A. (428)
SELF-FEEDERS FOR FATTENING SWINE. Missouri Agr. Expt. Sta. Bul. 144, 22 p., illus. 1917.
Discusses utility and gives directions for building.

WILFORD, E. J., and KELLEY, J. B. (429)
SUNLIGHT MOVABLE HOG HOUSES FOR KENTUCKY. Ky. Agr. Col. Ext. Circ. 198 (rev.), 23 p., illus. 1928.

WOOD, I. D. (430)
THE NEBRASKA INDIVIDUAL HOG HOUSE. Amer. Soc. Agr. Engin. Trans. 21: 85–88, illus. 1927.
Gives results of investigations at the University of Nebraska.

——— (431)
DESIGN AND MANAGEMENT OF INDIVIDUAL HOG HOUSES. Agr. Engin. 8: 269–272, illus. 1927.
Outlines results of experiments by University of Nebraska.

POULTRY HOUSES

Barton, O. A. (432)
POULTRY HOUSES FOR NORTH DAKOTA. N. Dak. Agr. Col. Ext. Circ. 52, 8 p., illus. 1922.

Bittenbender, H. A., Watkins, R. L., Whitfield, W. R., and Vernon, W. M. (433)
IOWA MODEL ONE-ROOM BROODER HOUSE. Iowa Agr. Col. Ext. Bul. 144, 4 p., illus. 1928.

———Watkins, R. L., Whitfield, W. R., and Vernon, W. M. (434)
WARM AND COOL ROOM BROODER HOUSE. Iowa Agr. Col. Ext. Bul. 145, 4 p., illus. 1928.

———Watkins, R. L., Whitfield, W. R., and Vernon, W. M. (435)
STRAW LOFT POULTRY HOUSE. Iowa Agr. Col. Ext. Bul. 146, 7 p., illus. 1928.

———Whitfield, W. R., Vernon, W. M., and Watkins, R. L. (436)
LAYING HOUSE EQUIPMENT. Iowa Agr. Col. Ext. Bul. 147, 11 p., illus. 1928.
Includes working drawings and bills of materials.

Botsford, H. E. (437)
HOW TO LOWER THE COST OF HOUSING POULTRY. N. Y., Cornell Agr. Expt. Sta. Bul. 180, 18 p., illus. 1929.
Contains drawings and instructions for erecting economical poultry houses.

Card, L. E. and Hanson, F. P. (438)
A COLONY BROODER HOUSE THAT STARTS CHICKS RIGHT. Ill. Agr. Expt. Sta. Circ. 291, 12 p., illus. 1924.

———and Foster, W. A. (439)
HOUSING FARM POULTRY. Ill. Agr. Expt. Sta. Circ. 337, 24 p., illus. 1929.
Gives details of constructing small houses.

Carter, D. G., and Wallis, S. R. (440)
FARM POULTRY HOUSES AND EQUIPMENT. Ark. Agr. Col. Ext. Circ. 254, 11 p., illus. 1928.

Carver, J. S., Shoup, G. R., Buchanan, W. D., and Smith, L. J. (441)
WASHINGTON POULTRY HOUSES. Wash. Agr. Expt. Sta. Bul. 188, 88 p., illus. 1925.
Describes and shows plans of several types of houses and equipment.

Charles, T. B. (442)
POULTRY HOUSING FOR PENNSYLVANIA. Penn. State Col. Ext. Circ. 115, 37 p., illus. 1928.
Contains plans, bills of material, and methods of construction.

Christie, G. I. (443)
DEPARTMENT OF AGRICULTURAL ENGINEERING. Ind. Agr. Expt. Sta. An. Rpt. 39: 17–20, illus. 1926.
Discusses temperatures in poultry houses.

——— (444)
DEPARTMENT OF AGRICULTURAL ENGINEERING. Ind. Agr. Expt. Sta. An. Rpt. 41: 25–28, illus. 1929.
Gives results of a study of heating and insulation of poultry houses.

Claybaugh, J. H. (445)
PRACTICAL POULTRY EQUIPMENT. Nebr. Agr. Col. Ext. Circ. 1441, 39 p., illus. 1928.
Describes troughs, hoppers, nests, roosts, and other equipment.

Clegg, W. A. (446)
PORTABLE COLONY BROODER HOUSE. Ga. Agr. Col. Circ. 130, 4 p. 1927.
Contains drawings and brief description.

Cooke, C. E. (447)
POULTRY HOUSING. Minn. Univ. Agr. Ext. Spec. Bul. 121, 15 p., illus. 1928.
Describes three types of small houses.

Cyphers Incubator Co. (448)
POULTRY PLANT CONSTRUCTION. 64 p., illus. Buffalo, N. Y. 1904.
Complete plans of incubator cellar, brooder houses, etc.

Dakan, E. L., and Vickers, G. C. (449)
THE OHIO MULTIPLE-UNIT POULTRY HOUSE. Ohio Agr. Col. Ext. Bul. 5, 16 p., illus. 1922–23.
Description, plans, and bill of materials.

Davidson, J. B., and Lippincott, W. A. (450)
FARM POULTRY HOUSES. Iowa Agr. Expt. Sta. Bul. 132, p. [227]–251, illus. 1912.
Contains construction details.

DOUGHERTY, J. E. and LLOYD, W. E. (451)
PRACTICAL AND INEXPENSIVE POULTRY APPLIANCES. Calif. Agr. Expt. Sta. Circ. 142, 23 p., illus. 1915.
Describes trap nests, hoppers, coops, crates, etc.

——— and BELTON H. L. (452)
POULTRY HOUSES AND EQUIPMENT. Calif. Agr. Expt. Sta. Bul. 476, 100 p., illus. 1929.
Describes construction methods and gives plans for houses and equipment for farms and for commercial poultrymen.

DRYDEN, J. (453)
POULTRY HOUSING. Oreg. Agri. Expt. Sta. Bul. 179, 22 p., illus. 1921.
Contains plans and bills of materials for large and small houses.

ELFORD, F. C. (454)
THE PRINCIPLES OF POULTRY-HOUSE CONSTRUCTION WITH GENERAL AND DETAILED PLANS. Canada Expt. Farms Bul. 87, 55 p., illus. 1916.

ERF, O. (455)
THE HEN'S PLACE ON THE FARM. Kans. Agr. Expt. Sta. Bul. 150, 78 p., illus. 1907.
Contains some information regarding poultry houses and equipment.

FAIRBANKS, F. L. (456)
ARTIFICIAL ILLUMINATION OF POULTRY HOUSES FOR WINTER EGG PRODUCTION. N. Y. Agr. Col. (Cornell) Ext. Bul. 90, 28 p., illus. 1924.

——— and BOTSFORD, H. E. (457)
VENTILATION OF THE CORNELL OPEN-FRONT POULTRY HOUSE. N. Y. Agr. Col. (Cornell) Ext. Bul. 197, 12 p., illus. 1930.
Gives factors influencing ventilation and directions for management of this type of house.

FISKE, G. B. (458)
POULTRY ARCHITECTURE. 130 p., illus. New York. 1902.
A practical guide for construction of houses, coops, and yards.

FOGLE, F. E., and FERGUSON, C. M. (459)
MICHIGAN SHED-TYPE POULTRY HOUSE. Mich. Agr. Col. Ext. Bul. 48, 16 p., illus. 1926.
Contains descriptions and plans.

FOSTER, W. A., and ALP, H. H. (460)
HOUSING FARM POULTRY. Ill. Agr. Expt. Sta. Circ. 337, 24 p., illus. 1929.
Information on planning and constructing farm poultry houses.

GARVER, H. L. (461)
METHODS OF DIMMING LIGHTS FOR POULTRY HOUSES. Wash. Agr. Expt. Sta. Pop. Bul. 134, 31 p., illus. 1926.

GREIG, A. R., and BAKER, R. K. (462)
POULTRY HOUSES FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 7, 35 p., illus. 1915.

HALL, D. H. (463)
FARM POULTRY HOUSES. Clemson Agr. Col. S. C., Ext. Bul. 69, 21 p., illus. 1925.
Contains plans and description of small poultry houses and large colony houses.

HALPIN, J. G., and OCOCK, C. A. (464)
POULTRY-HOUSE CONSTRUCTION. Wis. Agr. Expt. Sta. Bul. 215, 32 p., illus. 1911.
Discusses site and details of construction and equipment.

——— HAYES, J. B., and SWENEHART, J. (465)
HOUSE THE HEN. Wis. Agr. Col. Ext. Circ. 184, 18 p., illus. 1925.
Contains detailed plans for construction of poultry house for cold climates.

——— HAYES, J. B., and SWENEHART, J. (466)
COLONY HOUSES FOR POULTRY. Wis. Agr. Col. Ext. Circ. 208, 8 p., illus. 1926.

HARVEY, R. N., OLSEN, J. C., KAZMEIER, F. W., and CONWAY, T. J. (467)
POULTRY HOUSES AND POULTRY EQUIPMENT FOR TEXAS. Tex. Agr. Expt. Sta. Bul. 207, 23 p., illus. 1917.

HOLMGREEN, E. N., and BENTLEY, M. R. (468)
POULTRY HOUSES FOR TEXAS. Tex. Agr. Col. Ext. [Bul.] 65 (rev.), 14 p., illus. N. d.
Gives plans for shed roof and brooder houses.

JACKSON, H. W. (469)
POULTRY HOUSES AND FIXTURES. Ed. 9, 320 p., illus. Dayton Ohio. 1926.
Gives plans and directions for construction.

JONES, R. E., and CARD, L. E. (470)
POULTRY HOUSE CONSTRUCTION. Conn. Agr. Expt. Sta. Bul. 81, p. [31]–55, illus. 1915.
Gives plans and specifications of houses that have given good results.

——— (471)
THE CONNECTICUT 12 X 12 BROODER HOUSE. Conn. Agr. Col. Ext. Bul. 110, 8 p., illus. 1927.

——— (472)
THE CONNECTICUT 20 X 30 LAYING HOUSE. Conn. Agr. Col. Ext. Bul. 138, 16 p., illus. 1929.

JULL, M. A., and LEE, A. R. (473)
POULTRY HOUSES AND FIXTURES, U. S. Dept. Agr. Farmers' Bul. 1554, 30 p., illus. 1928.
Gives general information and details of design.

KANSAS STATE BOARD OF AGRICULTURE. (474)
POULTRY IN KANSAS. Kans. State Bd. Agr. Rpt. 45:151–203, illus. 1926.
Treats of houses and housing.

KELLERSTRASS, E. (475)
THE KELLERSTRASS WAY OF BUILDING POULTRY HOUSES, BROODER HOUSES, INCUBATOR CELLARS, COOPS, AND APPLIANCES. 92 p., illus. Kansas City, Mo. 1910.

KELLEY, J. B., and MARTIN, J. H. (476)
HOUSING FARM POULTRY. Ky. Agr. Col. Ext. Circ. 107, 18 p., illus. 1921.
Contains plans and bills of material.

KEMPSTER, H. L. (477)
FARM POULTRY HOUSE CONSTRUCTION. Missouri Agr. Expt. Sta. Bul. 107, p. [59]–90, illus. 1912.
Deals with design and construction and interior fittings.

——— (478)
THE MISSOURI POULTRY HOUSE. Missouri Agr. Expt. Sta. Circ. 93, 9 p., illus. 1920.
Describes house designed by the station.

——— (479)
THE 30 X 30 MISSOURI POULTRY HOUSE. Missouri Agr. Col. Ext. Circ. 232, 8 p., illus. 1929.
Contains plans and description.

KENNARD, D. C., and CHAMBERLIN, V. D. (480)
REMAKING A SEMIMONITOR POULTRY HOUSE. Ohio Agr. Expt. Sta. Bimo. Bul. 143: 41–43, illus. 1930.

KLEIN, G. T., and WARD, W. G. (481)
POULTRY HOUSES AND EQUIPMENT FOR KANSAS. Kans. Agr. Col. Ext. Bul. 60, 24 p., illus. 1929.
Describes several types. List of plans appended.

KRUM, O. C., and COOPER, F. L. (482)
COLORADO COMMERCIAL LAYING HOUSES. Colo. Agr. Col. Ext. Bul. 259–A, 6 p., illus. 1925.
Contains drawings and bills of materials.

LEE, A. R. (483)
POULTRY HOUSE CONSTRUCTION. U. S. Dept. Agr. Farmers' Bul. 1413, 28 p., illus. 1924.
Contains details of poultry house design, and methods of construction.

LEGGETT, H. A. D. (484)
POULTRY HOUSE CONSTRUCTION. Vt. Agr. Col. Ext. Circ. 31, 20 p., illus. 1924.
Includes drawings and description of round poultry house.

LEWIS, H. R., and CLARK, A. L. (485)
STUDIES IN POULTRY HOUSE CONSTRUCTION. N. J. Agr. Expt. Sta. Rpt. 1912: 104–124, illus. 1913.
Reports studies of five types of houses.

——— and THOMPSON, W. C. (486)
POULTRY BUILDINGS—LAYING AND BREEDING HOUSES. N. J. Agr. Expt. Sta. Bul. 325, 102 p., illus. 1917.
Discusses principles of design, gives statistics of certain types of houses and plans of standard types.

LYLE, S. P. (487)
THE GEORGIA POULTRY HOUSE. Ga. Agr. Col. Ext. Circ. 120, 8 p., illus. 1926.
Describes a house designed for national egg-laying contest.

MACKENZIE, K. J. J., and RUSSELL, E. J. (488)
THE AMOUNT OF AIR SPACE REQUIRED IN POULTRY HOUSES. Jour. Southeast Agr. Col. Wye 13: 84–102. 1904.

MEHRHOF, N. R. (489)
POULTRY HOUSES AND EQUIPMENT. Fla. Univ. Agr. Ext. Bul. 45, 20 p., illus. 1926.
Includes descriptions, drawings, and bills of material.

MOORE, P., LAMPMAN, C. E., MOORE, F. E., and BERESFORD, H. (490)
HOUSING FARM POULTRY. Idaho Agr. Col. Ext. Bul. 75, 39 p., illus. 1929.
Describes the half-monitor laying house.

MOSES, B. D., and WOOD, T. A. (491)
THE ELECTRIC BROODER. Calif. Agr. Expt. Sta. Bul. 441, 39 p., illus. 1927.
Describes principles and operation of several types.

MUSSEHL, F. E., and WELLS, H. M. (492)
HOUSES FOR THE FARM POULTRY FLOCK. Nebr. Agr. Col. Ext. Bul. 53, 12 p., illus. 1919.
Includes plans and bills of materials.

NEEL, L. G. (493)
POULTRY HOUSES AND EQUIPMENT. Clemson Agr. Col. S. C., Ext. Bul. 88, 23 p., illus. 1928.
Describes the South Carolina poultry house.

NORMAN, C. A. (494)
THE INDIANA POULTRY HOUSE. Amer. Soc. Agr. Engin. Trans. 16: 183–188, illus. 1922.
Gives details of construction.

NOURSE, H. A., and others. (495)
BEST PLANS OF POULTRY HOUSES; HOW TO BUILD THE MOST SATISFACTORY LARGE AND SMALL, STATIONARY AND MOVABLE LAYING HOUSES, BROODER HOUSES, ETC. 47 p., illus. St. Paul, Minn. 1923.
Tells how to build large and small laying and breeding houses.

OHIO STATE UNIVERSITY, DEPARTMENT OF POULTRY HUSBANDRY and DEPARTMENT OF AGRICULTURAL ENGINEERING. (496)
POULTRY HOUSES AND EQUIPMENT. Ohio Agr. Col. Ext. Bul. v. 19, no. 7, 40 p., illus. 1924.
Describes the shed-roof house.

OPPERMAN, C. L. (497)
POULTRY HOUSE CONSTRUCTION AND ITS INFLUENCE ON THE DOMESTIC FOWL. Md. Agr. Expt. Sta. Bul. 146, 31 p., illus. 1910.
Reports the result of two year's study of types of poultry houses.

PHILIPS, A. G. (498)
HOUSING FARM POULTRY. Ind. Agr. Expt. Sta. Circ. 98 (rev.), 12 p., illus. 1922.
Principles outlined and illustrated with drawings.

RICE, J. E., and ROGERS, C. A. (499)
BUILDING POULTRY HOUSES. N. Y. Cornell Agr. Expt. Sta. Bul. 274, p. [81]-124, illus. 1910.
Discusses principles and their application.

ROBINSON, T. R., and RUSSELL, E. J. (500)
RELATIVE EFFICIENCY OF POULTRY HOUSES WITH AND WITHOUT GROUND VENTILATION. Jour. Southeast Agr. Col. Wye 1905: 175–186. 1905.

SCHOPPE, W. F. (501)
POULTRY HOUSES. Mont. Agr. Expt. Sta. Circ. 100, 23 p., illus. 1921.

SHOUP, G. R., and SHOUP, Mrs. G. R. (502)
THE PUYALLUP LAYING HOUSE. West. Wash. Agr. Expt. Sta. Pop. Bul. 4–W, 52 p., illus. 1927.
Describes building said to be especially adapted to western Washington conditions.

SIMMONDS, G. J. (503)
EFFICIENT POULTRY HOUSING. 35 p., illus. Manette, Wash. 1913.
Gives plans and specifications for octagonal and round houses.

SMITH, C. W. (504)
THE RELATION OF ENVIRONMENTAL CONDITIONS IN POULTRY HOUSES TO WINTER EGG PRODUCTION. Nebr. Agr. Expt. Sta. Bul. 247, 34 p., illus. 1930.
Discusses effects of temperature, humidity, and ventilation as shown by tests.

STONEBURN, F. H. (505)
A SUCCESSFUL BROODER HOUSE. Conn. Agr. Expt. Sta. Bul. 33, 10 p., illus. 1905.
Describes a brooder house built by the station.

THOMPSON, W. C., THORP, W. P. JR., and POUND, G. H. (506)
NEW JERSEY POULTRY BUILDINGS. N. J. Agr. Expt. Sta. Bul. 370, 56 p., illus. 1923.
Summarizes essential factors in the planning and construction of laying and breeding houses.

TURPIN, G. M., and COSTELLOE, M. F. P. (507)
A SUCCESSFUL IOWA SHED ROOF POULTRY HOUSE. Iowa Agr. Expt. Sta. Bul. 176, p. 175–184, illus. 1918.
Describes a house tested at the Iowa station.

UFFORD, O. C. (508)
AN IMPROVED POULTRY HOUSE FOR COLORADO FLOCKS. Colo. Agr. Col. Ext. Bul. 291–A, 11 p., illus. 1929.
Describes a shed-type house.

——— (509)
BROODER HOUSES FOR COLORADO. Colo. Agr. Col. Ext. Bul. 285–A, 8 p., illus. 1930.
Includes plans and bills of materials.

UPP, C. W. (510)
LAYING HOUSES FOR LOUISIANA. La. Agr. Col. Ext. Circ. 128, 20 p., illus. 1929.
Instructions for building shed and gable-roof types.

UPTON, H. E. (511)
POULTRY HOUSE CONSTRUCTION. Brit. Columbia Dept. Agr. Bul. 63, 40 p., illus. 1915.
Describes poultry houses suitable for British Columbia.

WELLS, K. M. (512)
THE TENNESSEE MODEL POULTRY HOUSE. Tenn. Agr. Col, Ext. Pub. 132, 4 p., illus. 1925.

WILBUR, O. M. (513)
POULTRY HOUSING. Maine Agr. Col. Ext. Bul. 173, 16 p., illus. 1927.
Contains practical information on houses for Maine conditions.

WINTON, B., and BONEY, W. C. (514)
POULTRY EQUIPMENT MADE AT HOME. Missouri Agr. Col. Ext. Circ. 151, 16 p., illus. 1924.
Contains plans and directions for making various equipment.

WOODS, P. T. (515)
OPEN-AIR POULTRY HOUSES FOR ALL CLIMATES. 86 p., illus. Chicago. 1912.

See also (222) and (341).

BUILDINGS FOR FARM PRODUCTS

GRAIN, SEED, AND CORNCRIBS

BAILEY, C. H. (516)
THE HANDLING AND STORAGE OF SPRING WHEAT. Jour. Amer. Soc. Agron. 9: 275–281, illus. 1917.
Treats of moisture in grain in relation to storage.

BOERNER, E. G., BETTS, M. C., and MILLER, T. A. H. (517)
FARM GRAIN STORAGE. U. S. Dept. Agr. Leaflet 46, 8 p, illus. 1929.
Relates especially to combined wheat.

ELLIOTT, J. A. (518)
STORAGE ROTS OF SWEET POTATOES. Ark. Agr. Expt. Sta. Bul. 144, 12 p., illus. 1918.
Includes description and drawings of storage house.

FOWLER, E. S. (519)
REINFORCED CONCRETE SILOS AND SMALL GRAIN BINS. Natl. Assoc. Cement Users Proc. 9: 498–510, illus. 1913.
A review of statistical data and information regarding construction.

JEFFERS, L. M., LARKIN, W. J., and RUSH, A. L. (520)
A PORTABLE FARM GRANARY. U. S. Dept. Agr., Bur. Markets Doc. 11, 8 p., illus. 1918.
Contains detailed plans and specifications.

KELLEY, M. A. R. (521)
FARM BULK STORAGE FOR SMALL GRAINS. U. S. Dept. Agr. Farmers' Bul. 1636, 46 p., illus. 1930.
Presents designs for several types of grain storages.

LARKEN, W. J., JR. (522)
NOTES ON GRAIN PRESSURES IN STORAGE BINS. U. S. Dept. Agr. Bul. 789, 16 p., illus. 1919.
Contains tabular data, graphs, and formula.

RICKEY, L. F. (523)
COSTS OF STORING CORN ON THE FARM. Ill. Agr. Expt. Sta. Bul. 295, 16 p., illus. 1927.
Includes results of tests of the shrinkage of corn during storage.

ROTHGEB, B. E., and COLEMAN, D. A. (524)
VENTILATED FARM GRAIN BINS. U. S. Dept. Agr., Bur. Agr. Econ. Grain Invest. [Rpt.] 24, 16 p., illus. 1924. [Mimeographed.]
Gives results of experiments under controlled conditions.

SILVER, J., CROUCH, W. E., and BETTS, M. C. (525)
RAT PROOFING BUILDINGS AND PREMISES. U. S. Dept. Agr., Farmers' Bul. 1638, 26 p., illus. 1930.
Devoted largely to the rat-proofing of farm structures.

See also (204).

SILOS

ANONYMOUS. (526)
CONCRETE SILOS. 88 p., illus. Chicago and Pittsburgh. 1911.
Discusses the theory and use of silos.

ATWOOD, H. (527)
CONSTRUCTION OF A SILO. W. Va. Agr. Expt. Sta. Bul. 129, p. 189–195, illus. 1910.
Describes construction of a reinforced brick silo.

BARR, W. A. (528)
SILOS AND SILAGE CROPS FOR ARIZONA. Ariz. Agr. Col. Ext. Circ. 17, 17 p., illus. 1917.
Gives tables of capacities and describes construction of concrete, tile, and wood silos.

BELL, K. J. (529)
HISTORY AND GROWTH OF THE TREATED WOODEN SILO.
Amer. Wood-Preservers' Assoc. Proc. 17: 352–357. 1921.

BRAY, C. I., and FORRESTER, D. R. (530)
SILOS IN OKLAHOMA. Okla. Agr. Expt. Sta. Bul. 101, 83 p., illus. 1914.
Describes common types of silos and points out essential features of good construction.

CARRIER, L. (531)
SILO CONSTRUCTION. Va. Agr. Expt. Sta. Bul. 182, 23 p., illus. 1909.
Describes materials, methods, and costs.

CHASE, L. W. (532)
SILO CONSTRUCTION IN NEBRASKA. Nebr. Agr. Expt. Sta. Bul. 138, 96 p., illus. 1913.
Deals with location, planning, erection, care, and cost of various types of silos.

——— (533)
MEASURING SILAGE AND CAPACITY OF SILOS. Nebr. Agr. Expt. Sta. Circ. 1, 14 p., illus. 1917.
Includes table showing actual and theoretical capacity.

CRISP, H. L., and PATTERSON, H. J. (534)
SILOS AND SILAGE IN MARYLAND. Md. Agr. Expt. Sta. Bul. 129, 78 p., illus. 1908.
Describes 70 existing silos.

DAVIDSON, J. B., and KING, M. L. (535)
THE IOWA SILO. Iowa Agr. Expt. Sta. Bul. 117, p. 196–266, illus. 1910.
Contains plans and details of construction of silos made of hollow-clay building blocks.

——— (536)
MODERN SILO CONSTRUCTION. Iowa Agr. Expt. Sta. Bul. 141, p. 159–229, illus. 1913.
Describes design and methods of constructing various kinds of silos.

Dodson, W. R., and Staples, C. H. (537)
SILOS AND ENSILAGE. La. Agr. Expt. Sta. Bul. 143, 20 p., illus. 1914.
Contains table of capacity and general information.

Dvorachek, H. E. (538)
SILOS AND SILAGE IN COLORADO. Colo. Agr. Expt. Sta. Bul. 200, 49 p., illus. 1914.
Gives the advantages of silos and discussion of various types. Includes instructions for erecting.

Eckles, C. H., Reed, O. E., and Fitch, J. B. (539)
THE CAPACITY OF SILOS AND WEIGHTS OF SILAGE. Kans. Agr. Expt. Sta. Bul. 222, 22 p., illus. 1919.
Tests on 32 silos are reported, and tables of weights and rules for estimates are included.

Garratt, G. A. (540)
WOOD IN SILO CONSTRUCTION. STRENGTH, DURABILITY AND PRESERVATION OF THE VARIOUS WOODS DESIRABLE FOR SILO CONSTRUCTION. Mich. Agr. Expt. Sta. Quart. Bul. 4: 60–61. 1921.
Discusses briefly adaptability of several woods for silo construction.

Gilbert, C. D. (541)
BUILDING CONCRETE SILOS. Concrete Cement Age 7: 3–6, 37–38; 2: 58–62, 82–83, illus. 1915.
Deals with unit and monolithic construction.

Greig, A. R., and Shaw, A. M. (542)
SILOS AND ROOT CELLARS FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 9, 38 p., illus. 1915.

Hanson, E. S. (543)
CONCRETE SILOS. 174 p., illus. Chicago. 1916.
Summarizes available knowledge on the subject.

Hazen, L. E., Blizzard, W. L., and McGillard, P. C. (544)
SILOS AND SILAGE. Okla. Agr. Expt. Sta. Circ. 60, 20 p., illus. 1926.
Describes construction of tower and pit concrete silos.

Hine, G. S., and Wheeler, G. C. (545)
CEMENT SILO CONSTRUCTION. Kans. Agr. Col. Ext. Bul., v. 4, no. 6, 65 p., illus. 1912.
Gives plans and detailed instructions for erecting monolithic and metal-lath silos.

Jones, E. R., and Swenehart, J. (546)
SILOS. Wis. Agr. Expt. Sta. Circ. 230, 16 p., illus. 1929.
Contains tables of capacity and describes several types.

King, F. H. (547)
THE CONSTRUCTION OF SILOS. Wis. Agr. Expt. Sta. Bul. 28, 16 p., illus. 1891.
Gives fundamentals of good construction based on a study of 93 silos in use.

King, M. L. (548)
SILOS—CONSTRUCTION AND SERVICE. 100 p., illus. St. Paul, Minn. 1913.
Discusses fundamentals of silage preservation and types of wood and masonry silos.

Long, C. M. (549)
THE MISSOURI SILO. Missouri Bd. Agr. Mo. Bul. 12, 39 p., illus. 1914.

Metcalfe, T. P., and Scott, G. A. (550)
PIT SILOS. U. S. Dept. Agr. Farmers' Bul. 825, 14 p., illus. 1917.
Describes silos and hoisting equipment.

Miller, R. C. (551)
AGRICULTURAL ENGINEERING. N. Dak. Agr. Expt. Sta. Rpt. 1928: 63–75, illus. 1928.
Contains results of experiments with trench silos.

Murdock, H. E. (552)
THE WEIGHT AND LATERAL PRESSURE OF SUNFLOWER SILAGE. Mont. Agr. Expt. Sta. Bul. 191, 19 p., illus. 1926.
Gives results of tests to determine proper design of silos for sunflowers.

Ocock, C. A., and White, F. M. (553)
CONCRETE SILO CONSTRUCTION. Wis. Agr. Expt. Sta. Bul. 214, 31 p., illus. 1911.
Gives directions in detail for construction of several types of concrete silos.

PAYNE, M. T. (554)
THE UNDERGROUND SILO. Tex. Agr. Col. Ext. Bul. 39, 23 p., illus. 1919.
Gives detailed directions for constructing.

PLUMB, C. S. (555)
THE SILO AND SILAGE IN INDIANA. Ind. Agr. Expt. Sta. Bul. 40, p. 65–81, illus. 1892.
Construction and cost of silage are discussed briefly.

——— (556)
THE MODERN SILO. Ind. Agr. Sta. Bul. 91, p. 83–106, illus. 1902.
Describes several types.

RABILD, H., and PARKS, K. E. (557)
HOMEMADE SILOS. U. S. Dept. Agr. Farmers' Bul. 855, (rev.) 55 p., illus. 1917.
Describes construction of concrete and stave silos.

SHEDD, C. K., and FOSTER, W. A. (558)
SILO CONSTRUCTION. Iowa Agr. Expt. Sta. Bul. 189, p. 97–149, illus. 1919. (Revision of Bul. 141)
Gives details of construction of various types of silos.

SHEPPERD, J. H., DOLVE, R. M., and MARTIN, G. L. (559)
THE SILO AND ITS CONSTRUCTION. N. Dak. Agr. Expt. Sta. Bul. 98, 27 p., illus. 1912.
Deals with design, construction, and cost of wood-stave, hollow-block, and concrete silos.

STILES, J. E., and DAVIDSON, J. B. (560)
THE CONSTRUCTION OF THE WOOD-HOOP SILO. Calif. Agr. Expt. Sta. Circ. 173, 20 p. illus. 1918.

VAN EWING, P. (561)
SILOS AND SILAGE. Ga. Agr. Expt. Sta. Bul. 110, p. [163]–190, illus. 1914.
Part I treats of different types of silos.

WOLL, F. W. (562)
THE SILO IN CALIFORNIA AGRICULTURE. Calif. Agr. Expt. Sta. Circ. 138, 23 p., illus. 1915.
Describes the steel, stave, and concrete silo.

WOOLEY, J. C., TROWBRIDGE, E. A., and RAGSDALE, A. C. (563)
WHY BUILD A SILO? AND HOW. Missouri Agr. Expt. Sta. Bul. 214, 15 p., illus. 1924.
See also (222) and (519).

ROOT AND FRUIT STORAGE

ANTHONY, R. D., and HECHLER, F. G. (564)
THE INSULATION OF FRUIT AND VEGETABLE STORAGES. Penn. Agr. Expt. Sta. Bul. 241, 28 p., illus. 1929.
Presents results of a cooperative research study in Pennsylvania.

BAKER, C. E. (565)
AIR COOLED APPLE STORAGES. Ind. Agr. Expt. Sta. Circ. 154, 24 p., illus. 1928.
Contains results of studies made by the station.

BEATTIE, J. H. (566)
HOME STORAGE OF VEGETABLES. U. S. Dept. Agr. Farmers' Bul. 879, 22 p., illus. 1917.
Describes types of storages and requirements of different vegetables.

BUSHNELL, J. (567)
STORAGE OF SEED POTATOES. Ohio Agr. Expt. Sta. Bimo. Bul. 12: 142–148, illus. 1927.
Gives information regarding desirable storage temperature at different seasons of the year.

CARPENTER, J. W., and HERRON, L. G. (568)
SWEET POTATO STORAGE. Miss. Agr. Col. Ext. Circ. 18, 16 p., illus. 1917.
Gives plans for storage house and suggestions for remodeling old buildings.

CARRICK, D. B. (569)
THE STORAGE OF APPLES. N. Y. Agr. Col. (Cornell) Ext. Bul. 189, 29 p., illus. 1929.
Relates chiefly to storage requirements and management.

Christie, G. I. (570)
DEPARTMENT OF RURAL ENGINEERING. Ind. Agr. Expt. Sta. Rpt. 37: 36–39, illus. 1924.
Reports the results of studies of requirements for apple storage.

——— (571)
DEPARTMENT OF AGRICULTURAL ENGINEERING. Ind. Agr. Expt. Sta. Rpt. 39: 17–20, illus. 1926.
Discusses artificial cooling of apple storages.

Corbett, L. S., and Morton, E. W. (572)
THE HOMEMADE STAVE SILO. Maine Agr. Col. Ext. Bul. 118, 13 p., illus. 1918.
Gives table of capacity and instructions for building.

Cotton, E. C., and Faxon, R. (573)
FARM APPLE STORAGE. Ohio Dept. Agr. Off. Bul. 15: 147–175, illus. 1922.
Describes essential features of a number of storages in Ohio.

Crider, F. J., and Albert, D. W. (574)
THE ADOBE SWEET POTATO STORAGE HOUSE IN ARIZONA. Ariz. Agr. Expt. Sta. Bul. 106, p. [393]–410, illus. 1925.
Contains details for construction and instructions for management.

Dana, H. J. (575)
REPORT ON SURVEY OF FRUIT COLD STORAGE PLANTS. Wash. [State] Univ. Engin. Expt. Sta. Bul. 24, 17 p. 1928.
Gives results of a survey of 17 packing and cold-storage plants.

DeBaun, R. W. (576)
SWEET POTATO CULTURE AND STORAGE IN NEW JERSEY. N. J. Agr. Expt. Sta. Cir. 114, 31 p., illus. 1919.
Describes several types and gives directions for management.

Dolve, R. M. (577)
POTATO WAREHOUSE PLANS. N. Dak. Agr. Expt. Sta. Bul. 101, 26 p., illus. 1912.
Gives details of construction of inexpensive potato cellars and warehouses.

Fogle, F. E. (578)
THE VENTILATION OF POTATO WAREHOUSES. Mich. Agr. Expt. Sta. Quart. Bul. v. 5: 20–25, illus. 1922.

Gross, E. R. (579)
COMMON STORAGE FOR FRUIT AND VEGETABLES. Agr. Engin. 8: 337–340, illus. 1927.
Gives the results of an inspection of storages in New Jersey.

Hechler, F. G. (580)
INSULATION OF FRUIT STORAGE HOUSES. Agr. Engin. 8: 249–251, illus. 1927.
Discusses materials, heat transfer, and requirements for good insulation.

Hutt, W. N. (581)
AIR-COOLED APPLE STORAGE HOUSES. N. C. Agr. Expt. Sta. Bul. 228, 31 p., illus. 1914.
Points out essential features of construction.

Kaiser, W. G. (582)
RECENT INVESTIGATIONS IN THE FARM STORAGE OF APPLES, POTATOES, AND SIMILAR CROPS. Amer. Soc. Agr. Engin. Trans. 20: 219–226, illus. 1926.
Describes work of various investigators.

Kelley, M. A. R. (583)
DESIGN AND OPERATION OF COMMERCIAL SWEET POTATO STORAGE HOUSES. Va. Truck Expt. Sta. Bul. 67, p. [723]–765, illus. 1929.
Gives essentials for a well-designated storage house and results of tests.

Kirk, T. W. (584)
COOL STORAGE OF FRUIT. New Zeal. Jour. Agr. 5: 508–515, illus. 1912.
Detailed plans and specifications of a storage are given.

Lauritzen, J. I., and Harter, L. L. (585)
THE RELATION OF HUMIDITY TO INFECTION OF THE SWEET POTATO BY RHIZOPHUS. Jour. Agr. Research 33: 527–539, illus. 1926.
Describes experiments in storage house under controlled-humidity conditions.

Lyle, S. P. (586)
THE CONTROL OF HEAT AND VENTILATION IN SWEET POTATO STORAGE HOUSES. Agr. Engin. 9: 309–311, illus. 1928.
Gives results of experiments at Georgia Agricultural College.

McCall, F. E. (587)

VEGETABLE STORAGE. S. Dak. Agr. Col. Ext. Circ. 9, 12 p., illus. 1918.

Describes cellar and pit storages.

McGinnis, J. L. (588)

FARM STORAGE OF APPLES AND POTATOES. Colo. Agr. Col. Ext. Bul. 121, 19 p., illus. 1917.

Relates chiefly to cellar and pit storage.

Manns, T. F. (589)

SWEET POTATO STORAGE IN DELAWARE. Del. Agr. Expt. Sta. Bul. 127, 64 p., illus. 1920.

The efficiencies of large and small storages are compared.

Marble, L. M., and Anthony, R. D. (590)

CONSTRUCTION AND MANAGEMENT OF THE BANK STORAGE CELLAR. Penn. Agr. Expt. Sta. Bul. 191, 32 p., illus. 1925.

Describes principles of construction and experiments in ventilation.

Marshall, R. E., and Fogle, F. E. (591)

AIR-COOLED STORAGES FOR MICHIGAN APPLES. Mich. Agr. Expt. Sta. Quart. Bul. v. 6, p. 15–20, illus. 1923.

Describes a successful storage house in Michigan.

Miller, F. E. (592)

UTILIZATION OF FLUE-HEATED TOBACCO BARNS FOR SWEET-POTATO STORAGE. U. S. Dept. Agr. Farmers' Bul. 1267, 12 p., illus. 1922.

Describes method of remodeling tobacco barn to serve dual purpose.

Pailthorp, R. R., and Samson, H. W. (593)

NORTHWESTERN APPLE-PACKING HOUSES. U. S. Dept. Agr. Farmers' Bul. 1204, 39 p., illus. 1921.

Price, J. C. C. (594)

HARVESTING AND STORING SWEET POTATOES. Ala. Agr. Expt. Sta. Bul. 197: 87–99, illus. 1917.

Includes plan and bill of material for suitable storage house.

——— (595)

THE PRODUCTION AND STORAGE OF SWEET POTATOES. Miss. Agr. Expt. Sta. Bul. 279, 20 p., illus. 1930.

Describes a new type of storage house.

Ramsey, H. J., Bird, H. S., McKay, A. W., and Markell, E. L. (596)

THE HANDLING AND STORAGE OF APPLES IN THE PACIFIC NORTHWEST. U. S. Dept. Agr. Bul. 587, 31 p., illus. 1917.

Discusses proper storage temperatures.

——— and Dennis, S. J. (597)

MANAGEMENT OF COMMON STORAGE HOUSES FOR APPLES IN THE PACIFIC NORTHWEST. U. S. Dept. Agr. Farmers' Bul. 852, 23 p., illus. 1917.

Discusses humidity-control ventilation and insulation.

Smith, E. (598)

FARM STORAGES FOR FRUITS AND VEGETABLES. Brit. Columbia Dept. Agr. Bul. 58, 27 p., illus. 1914.

Treats of two main types.

Strahan, J. L. (599)

CONSTRUCTION AND MANAGEMENT OF ROOT STORAGE CELLARS. N. Y. Agr. Col. (Cornell) Ext. Bul. 22: 39–56, illus. 1917.

——— (600)

THE PROBLEM OF COMMON STORAGE FOR EASTERN APPLE GROWERS. Agr. Engin. 6: 265. 270, illus. 1925.

Contains results of studies made by the Massachusetts Agricultural Experiment Station.

Stuart, W. (601)

POTATO STORAGE AND STORAGE HOUSES. U. S. Dept. Agr. Farmers' Bul. 847, 27 p., illus. 1917.

Discusses principles of storage and describes types of houses.

Stuckey, H. P. (602)

SWEET POTATOES, CULTURE, STORING, AND STUDIES IN FERTILIZING. Ga. Agr. Expt. Sta. Bul. 107, p. [83]–112, illus. 1914.

Has a chapter on storage houses including a plan.

Thompson, H. C. (603)

STORAGE OF SWEET POTATOES. U. S. Dept. Agr. Farmers Bul. 1442, 22 p., illus. 1925.

Shows plans for storage house and gives directions for building, including bill of materials. Also discusses storage pits and cellars.

Wicks, W. H. (604)
SWEET POTATO CULTURE IN ARKANSAS. Ark. Agr. Expt. Sta. Bul. 124, 31 p., illus. 1915.
Discusses storage.

Youngblood, B. (605)
STORAGE AND DISEASES OF THE SWEET POTATO IN TEXAS. Tex. Agr. Expt. Sta. Bul. 250, 41 p., illus. 1919.
Includes drawings of suitable storage house.

TOBACCO BARNS

Moss, E. G. (606)
TOBACCO-CURING BARNS. N. C. Agr. Col. Ext. Circ. 18, 9 p., illus. 1916.
Describes a cooperative experiment.

BUILDINGS FOR HOUSING EQUIPMENT AND SUPPLIES

Bowen, J. T. (607)
HARVESTING AND STORING ICE ON THE FARM. U. S. Dept. Agr. Farmers' Bul. 1078, 31 p., illus. 1920.
Gives drawings and specifications of various types of houses.

——— and Lambert, G. M. (608)
ICE HOUSES AND THE USE OF ICE ON THE DAIRY FARM. U. S. Dept. Agr. Farmers' Bul. 623, 24 p., illus. 1915.
Contains specifications for various types of ice houses.

Curtiss, C. F. (609)
AGRICULTURAL ENGINEERING. Iowa Agr. Expt. Sta. Rpt. 1927–28: 10–13. 1928.
Gives results of experiments with ice house in which ice is placed above the refrigeration.

Dawson, J. R. (610)
THE ICE WELL FOR THE DAIRY FARM. U. S. Dept. Agr. Circ. 155, 12 p., illus. 1931.
Describes an experimental ice well constructed by Bureau of Dairy Industry. Used for keeping dairy products cold.

Ekblaw, K. J. T. (611)
IMPLEMENT SHEDS. Natl. Lumber Manfrs. Assoc., Trade Ext. Dept. Farm Bul. 1, 19 p., illus. 1916.
Discusses design of open and closed sheds.

——— (612)
FARM IMPLEMENT HOUSES. Kans. Engin. Expt. Sta. Bul. 10, 16 p., illus. 1919.
Discusses requirements and gives directions for building.

Fenton, H. H. (613)
THE FARM SHOP. Kans. Agr. Col. Ext. Circ. 16, 16 p., illus. 1919.
Contains plan and bill of materials for small farm shop.

Graham, E. C., and Shedd, C. K. (614)
THE FARM SHOP. Kans. Engin. Expt. Sta. Bul. 22, 20 p., illus. 1929.
Gives floor plans for several types of shops.

Graham, R. R. (615)
ICE COLD STORAGE ON THE FARM. Ontario Dept. Agr. Bul. 207, 48 p., illus. 1912.
States the essentials of a good ice house and shows several designs.

Greig, A. R., and Shaw, A. M. (616)
IMPLEMENT SHEDS AND GRANERIES FOR PRAIRIE FARMS. Brit. Columbia Dept. Lands, Forest Serv., Farm Bldg. Ser. Bul. 8, 38 p., illus. 1915.

Nixon, R. L. (617)
COTTON WAREHOUSE CONSTRUCTION. U. S. Dept. Agr. Bul. 277, 38 p., illus. 1915.
Describes types of standard warehouses and discusses cotton storage and fire insurance.

Norman, C. A. (618)
HOUSING AND CARE OF FARM MACHINERY. Purdue Agr. Ext. Bul. 84, 8 p., illus. 1919.
Contains general information regarding the construction of implement sheds.

ROEHL, L. M. (619)
THE FARM SHOP AND TOOL EQUIPMENT. N. Y. Agr. Col. (Cornell) Ext. Bul. 108, 27 p., illus. 1925.
Contains several plans of tool sheds.

WHITE, F. M., and GRIFFITH, C. I. (620)
ICE HOUSES AND ICE SUPPLY. Natl. Lumber Manfrs. Assoc., Trade Ext. Dept. Farm Bul. 6, 23 p., illus. 1916.

WHITE, H. B., and JACOBSON, M. G. (621)
MACHINE SHEDS. Minn. Agr. Col. Ext. Spec. Bul. 115, 12 p., illus. 1927.
Discusses requirements and gives several plans.

YOUNGBLOOD, B. (622)
THE BEST TYPE OF IMPLEMENT SHED FOR TEXAS FARMS. Tex. Agr. Expt. Sta. Circ. 4 (n. s.), 8 p., illus. 1914.

——— and **WHIPKEY, W. W.** (623)
HOUSING FARM IMPLEMENTS. Tex. Agr. Expt. Sta. Circ. 10 (n. s.) : 8 p., illus. 1916.
Contains plans, specifications, and bills of material.

See also (341) and (373).

BUILDINGS FOR MANUFACTURING AND PROCESSING

BELTON, H. L., and LONG, J. D. (624)
MILK HOUSES FOR CALIFORNIA DAIRIES. Calif. Agr. Expt. Sta. Circ. 286, 26 p., illus. 1925.
Gives directions for building milk houses to conform with dairy laws.

BORDEN'S CONDENSED MILK CO. (625)
PLANS AND SUGGESTIONS FOR THE ARRANGEMENT AND CONSTRUCTION OF A MODERN MILK HOUSE. 32 p., illus. New York. 1916.

BROWN, C. B. (626)
THE ADOBE MILK HOUSE. Ariz. Agr. Expt. Sta. Circ. 38, 4 p., illus. 1921.

DAVIS, D. J. (627)
THE MODERN PACKING HOUSE. Ed. 2, 488 p., illus. Chicago. 1921.
Includes discussion of design, construction, equipment, and operation.

FOGLE, F. E., and LUCAS, P. S. (628)
FARM MILK HOUSES. Mich. Agr. Expt. Sta. Circ. 123, 7 p., illus. 1929.
Plans for three houses are shown.

FRANDSEN, J. H. (629)
COOLING TANKS AND MILK HOUSES AS FACTORS IN CREAM IMPROVEMENT. Nebr. Agr. Expt. Sta. Circ. 3, 19 p., illus. 1917.
Gives results of winter and summer tests of tanks.

KELLEY, E., and PARKS, K. E. (630)
A PLAN FOR A SMALL DAIRY HOUSE. U. S. Dept. Agr., Bur. Anim. Indus. Circ. 195, 5 p., illus. 1912.

LAMASTER, J. P., and CUSHMAN, C. G. (631)
CREAM PRODUCTION. Clemson Agr. Col. S. C., Ext. Bul. 63, 29 p., illus. 1924.
Contains floor plan of a farm milk house.

MORTENSEN, M., and DAVIDSON, J. B. (632)
CREAMERY ORGANIZATION AND CONSTRUCTION. Iowa Agr. Expt. Sta. Bul. 139, p. [99]–146, illus. 1913.
Part I treats of the essentials of creamery construction, and Part II contains sets of plans.

ROSS, H. E. (633)
PLANS FOR A SIMPLE MILK HOUSE. N. Y. Agr. Col. (Cornell) Ext. Bul. 200, 19 p., illus. 1930.
Describes plans for milk house and gives directions for constructing a cooling tank.

RUDDICK, J. A. (634)
SMALL COLD STORAGES AND DAIRY BUILDINGS. Canada Dept. Agr. Bul. 16 (n. s.), 16 p., illus. 1923.

STOCKING, W. A., AYRES, W. E., POTTS, R. C., and MEYER, H. F. (635)
COUNTRY MILK STATIONS. N. Y. Agr. Col. (Cornell) Ext. Bul. 30, 32 p., illus. 1918.
General information and detailed plans.

STRAHAN, J. L. (636)
MILK HOUSES FOR VERMONT DAIRY FARMS. Vt. Dept. Agr. Bul. 27, 23 p., illus. 1918.
Outlines the essentials for a milk house.

See also (372), (373), (382), (389) and 414).

LIVESTOCK EQUIPMENT AND CONVENIENCES

GENERAL

BOHSTEDT, G. (637)
SELF-FEEDERS FOR HOGS. Wis. Agr. Col. Ext. Circ. 119, 15 p., illus. 1919.
Describes construction and use.

CARMICHAEL, W. J. (638)
THE SELF-FEEDER IN PORK PRODUCTION. Ill. Agr. Expt. Sta. Circ. 218, 8 p., illus. 1918.

CARROLL, W. E., and FOSTER, W. A. (639)
CONSTRUCTION OF SELF-FEEDERS AND THEIR USE IN PORK PRODUCTION. Ill. Agr. Expt. Sta. Circ. 319, 23 p., illus. 1927.
Points out advantages and gives complete plans and instruction for building and operating.

CORBETT, L. S., and BODWELL, J. H. (640)
SELF-FEEDER FOR HOGS. Maine Agr. Col. Ext. Bul. 117, 18 p., illus. 1918.
Contains plans, description, and instructions for using.

DURANT, A. L. (641)
EQUIPMENT FOR HOGS. Clemson Agr. Col. S. C., Ext. Bul. 71, 27 p., illus. 1926.
Treats of fences, houses, dipping vats, crates, and other equipment.

ENSLIN, B. G. L. (642)
SHEEP-DIPPING TANKS. Union So. Africa Dept. Agr. Jour. 7: 360–371, illus. 1914.
Contains detailed plans, specifications, and information regarding construction.

GARDINER, H. C. (643)
FEEDING ALFALFA HAY. Natl. Wool Grower 10: 11–14, illus. 1920.
Contains plans for feeding racks for sheep and cattle.

MURDOCK, H. E., and WELCH, H. (644)
SOME STOCK RANCH ACCESSORIES. Mont. Agr. Expt. Sta. Circ. 84: 85–100, illus. 1919.
Describes construction of corrals, feed racks, etc.

RUSSELL, E. Z., and BUCKLEY, S. S. (645)
HOG-LOT EQUIPMENT. U. S. Dept. Agr. Farmers' Bul. 1490, 22 p., illus. 1926.
Includes descriptions and plans of fences, troughs, self-feeders, crates, and other equipment.

SCHWAB, J. W., and NORMAN, C. A. (646)
HOW TO MAKE AND USE A SELF-FEEDER FOR HOGS. Purdue Agr. Ext. Bul. 90, 8 p., illus. 1920.

——— and WILEMAN, R. H. (647)
SELF-FEEDER FOR HOGS. Purdue Agr. Ext. Bul. 150, 8 p., illus. 1927.

TEXAS AGRICULTURAL AND MECHANICAL COLLEGE, EXTENSION SERVICE. (648)
TEXAS HOG LOT EQUIPMENT. Tex. Agr. Col. Ext. [Circ.] 58, 12 p., illus. 1927.
Contains plans of hog houses, self-feeders, shipping crates, loading chute, and breeding crate.

See also (180), (239), (340), and (347).

FENCES AND FENCING

ANONYMOUS. (649)
FENCES AND FENCING. N. S. Wales Dept. Agr., Farmers' Bul. 74, 32 p., illus. 1915.
Contains results of experiments with different types of fences.

ACHATZ, R. V. (650)
PRESERVATIVE TREATMENT OF WOOD POLES. Purdue Univ., Engin. Expt. Sta. Circ 2, 54 p., illus. 1920.
Treats of the cause of decay and preservative treatment of poles.

AMERICAN RAILWAY ENGINEERING ASSOCIATION. (651)
SPECIFICATIONS FOR CONCRETE FENCE POSTS. Amer. Ry. Engin. Assoc. Bul. v. 25, no. 257, p. 27–32, illus. 1923.
Contains specifications and drawings for round and square posts.

BAINER, H. M., and BONEBRIGHT, H. B. (652)
CEMENT AND CONCRETE FENCE POSTS. Colo. Agr. Expt. Sta. Bul. 148, 36 p., illus. 1909.
Discusses suitable materials and gives results of experiments.

BARRE, H. W. (653)
CREOSOTING FENCE POSTS. S. C. Agr. Expt. Sta. Bul. 201, 13 p., illus. 1919.
Gives results of 10 years' experiments.

BESLEY, F. W. (654)
INCREASING THE DURABILITY OF FENCE POSTS. Md. Agr. Expt. Sta. Bul. 163, p. 243–262, illus. 1912.
Describes preservative treatments and gives results.

BLAIR, R. E. (655)
THE WORK OF THE YUMA RECLAMATION PROJECT FARM IN 1918. U. S. Dept. Agr. Circ. 75; 77 p., illus. 1920.
Preservative treatments for willow fence posts are described on pages 76 and 77.

BUFFUM, B. C. (656)
THE LIFE AND PRESERVATION OF PITCH PINE FENCE POSTS. Wyo. Agr. Expt. Sta. Bul. 75, 18 p., illus. 1907.
Describes experiments and gives results.

CHITTENDEN, A. K. (657)
DURABILITY OF FENCE POSTS. Mich. Agr. Expt. Sta. Quar. Bul. 5: 137–139. 1923.
Shows the average length of life of untreated posts.

CRUMLEY, J. J. (658)
THE RELATIVE DURABILITY OF POST TIMBERS. Ohio Agr. Expt. Sta. Bul. 219, p. 605–640, illus. 1910.
Gives the results of examination of 292 fences in five States.

——— (659)
CONCRETE AND STEEL FENCE POSTS. Ohio Agr. Expt. Sta. Mo. Bul. 5: 107–110. 1920.
Reports results of experiments with about 10,000 concrete and steel posts in service.

CURTISS, C. F. (660)
PRESERVATIVE TREATMENT OF FENCE POSTS. Iowa Agr. Expt. Sta. Rpt. 1919–20: 49. 1920.
Contains resumé of 15 years' service tests.

DAVIDSON, J. B. (661)
CONCRETE FENCE POSTS. Iowa Agr. Expt. Sta. Bul. 219 p. [19]–44, illus. 1924.
Gives results of tests of over 700 posts over a period of 10 years.

DIETRICH, W. (662)
A PORTABLE PANEL FENCE. Ill. Agr. Expt. Sta. Circ. 132, 4 p., illus. 1909.
Gives directions for making.

FOGLE, F. E. (663)
SAFE METHOD FOR HANDLING THE HERD SIRE. Mich. Agr. Expt. Sta. Quart. Bul. v 10: 180–183, illus. 1928.
Describes method of fencing a bull yard and bull house.

FORD, C. F. (664)
FENCE POST TEST (TEXAS). Amer. Ry. Engin. Assoc. Bul. 26: 76–101, illus. 1924.
Contains data from inspection of a service test of fence posts treated with various preservatives.

HICOCK, H. W., and ANDERSON, P. J. (665)
PROLONGING THE LIFE OF TOBACCO SHADE TENT POLES. Conn. Agr. Expt. Sta. Tobacco Sta. Bul. 9: 3T–12T, illus. 1927.
Describes use of preservatives.

HORTON, H. E. (666)
FENCING THE FARM. Amer. Soc. Agr. Engin. Trans. 4: 116, illus. 1910.
Describes manufacture of wire fences, gives directions for building and cost data.

——— (667)
FENCES: MATERIALS, MANUFACTURING AND BUILDING. Amer. Soc. Agr. Engin. Trans. 9: 134–180, illus. 1915.
Extensive discussion with numerous illustrations and bibliography.

HUMPHREY, H. N. (668)
COST OF FENCING FARMS IN THE NORTH CENTRAL STATES. U. S. Dept. Agr. Bul. 321, 32 p., illus. 1916.
Gives results of a questionnaire and visits to typical farms.

KIMREY, A. C., SHAY, W. W., EVANS, G., and KAUPP, B. F. (669)
FARM FENCING. N. C. Agr. Col. Ext. Circ. 118, 32 p., illus. 1921.
Contains plans and instructions for constructing fences and gates.

LEHMANN, E. W. (670)
BUILDING A SELF FEEDER. Missouri Agr. Expt. Sta. Bul. 144: 18–22, illus. 1917.
Contains plans and specifications.

MACDONALD, G. B. (671)
PRESERVATIVE TREATMENT OF FENCE POSTS. Iowa Agr. Expt. Sta. Bul. 158, 31 p., illus. 1915.
Gives results of experiments with creosote for preserving fence posts.

MACLEAN, J. D. (672)
SERVICE TESTS OF TREATED AND UNTREATED FENCE POSTS. Amer. Wood Preservers' Assoc. Proc. 17: 401–424, illus. 1921.
Gives results of experiments by the Forest Service.

MARTIN, G. A. (673)
FENCES, GATES, AND BRIDGES. 188 p., illus. New York. 1887.
Contains a large number of sketches and descriptions of fences and gates.

MATTOON, W. R. (674)
TREATING FENCE POSTS ON THE FARM. La. Agr. Col. Circ. 37, 20 p., illus. 1920.
Gives results of experiments by the Forest Service and the Louisana station.

MORGAN, C. L. (675)
WIRE FENCE CONSTRUCTION. Clemson Agr. Col. S. C., Ext. Circ. 21, 3 p., illus. 1920.
Brief instructions for making fences.

NORTH DAKOTA AGRICULTURAL COLLEGE EXTENSION VETERINARIAN. (676)
DIPPING VATS. N. Dak. Agr. Col. Ext. Circ. 47, 4 p., illus. 1922.
Contains plans and bill of materials.

RUTHERFORD, W. J. (677)
FENCING THE FARM. Saskatchewan Dept. Agr. Bul. 51, 12 p., illus. 1917.
Shows designs of gates, posts, bracing, etc.

SOMERVILLE, W. (678)
WIRE FENCING. Jour. Bd. Agr. [London] 22: 721–737, illus. 1915.
A brief description of methods and tools used.

SPAFFORD, W. J. (679)
CEMENT CONCRETE POSTS FOR FENCING. Jour. Dept. Agr. So. Aust. 32: 612–623, illus. 1929.
Contains information on the design and manufacture of concrete fence posts.

TRULLINGER, R. W. (680)
SOME RESEARCH FEATURES INVOLVED IN A STUDY OF THE WOODEN FENCE POST AS A STRUCTURAL TIMBER. Agr. Engin. 5: 59–62. 1924.
Outlines the research problems that should be solved. Includes a short bibliography.

UNITED STATES DEPARTMENT OF AGRICULTURE, OFFICE OF PUBLIC ROADS. (681)
THE CONSTRUCTION OF CONCRETE FENCE POSTS. U. S. Dept. Agr. Farmers' Bul. 403, 31 p., illus. 1910.

WOOLEY, J. C. (682)
AGRICULTURAL ENGINEERING. Missouri Agr. Expt. Sta. Bul. 256: 40–44, illus. 1927.
Describes experiments on preservative treatment of fence posts.

——— (683)
THE DURABILITY OF FENCE POSTS. Missouri Agr. Expt. Sta. Circ. 108, 4 p., illus. 1922.
A progress report of investigation by the station.

MISCELLANEOUS BUILDINGS

BEATTIE, J. H. (684)
GREENHOUSE CONSTRUCTION AND HEATING. U. S. Dept. Agr. Farmers' Bul. 1318, 38 p., illus. 1923.
Describes several types of greenhouses and equipment for heating, ventilating, and water supply.

JOHNSTON, S. C. (685)
GREENHOUSE CONSTRUCTION. Ontario Dept. Agr. Bul. 224, 29 p., illus. 1914.
Contains the results of an investigation in northern and eastern United States.

LAMPMANN, G. (686)
THE GREENHOUSE. 120 p., illus. Berlin. 1927.
Contains information on the planning and construction of greenhouses.

MULLER, R. T. (687)
AMERICAN GREENHOUSE CONSTRUCTION; HEATING AND EQUIPMENT. 143 p., illus. New York. 1927.
Discusses essentials of construction including materials, arrangement, erecting, and heating equipment.

NASON, W. C. (688)
RURAL COMMUNITY BUILDINGS IN THE UNITED STATES. U. S. Dept. Agr. Bul. 825, 36 p., illus. 1920.
Describes a number of existing community buildings.

——— (689)
PLANS OF RURAL COMMUNITY BUILDINGS. U. S. Dept. Agr. Farmers' Bul. 1173, 38 p., illus. 1921.
Includes descriptions and plans of community houses.

NISSLEY, C. H. (690)
PLANT-GROWING AND PLANT-GROWING STRUCTURES. N. J. Agr. Col. Ext. Bul. 51, 48 p., illus. 1926.
Includes descriptions of sash houses, coldframes, and hotbeds and their equipment.

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